

SEQUENCE LISTING

<110> Sun, Yongming
 Recipon, Herve
 Salceda, Susana
 Liu, Chenghua

<120> Compositions and Methods Relating to Ovary Specific
 Genes and Proteins

<130> DEX-0257

<140>
 <141>

<150> 60/246,640
 <151> 2000-11-08

<160> 238

<170> PatentIn Ver. 2.1

<210> 1
 <211> 151
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (77)..(78)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (82)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (129)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (143)
 <223> a, c, g or t

<400> 1

atcccactca atcatggggg attatgtttc tgatgtgctg ttagatttgg ttttctagta 60
 tttggctgag gatttttnngc anttaatgtt ccactagagg taattgccct gggtgtggcc 120
 ttgtctggng ttgggatcag ganttatgct g 151

<210> 2
 <211> 59
 <212> DNA
 <213> Homo sapiens

<400> 2
 cgataaatgt agatatgaaa gcagactaca gtataaaaaca ctgctcagaa acatttttgc 59

<210> 3
 <211> 2330
 <212> DNA
 <213> Homo sapiens

<400> 3
 taaaacacct ggcccaggtg gtacaaacac caactcgggg accacgaggc taagccccca 60
 aaggcgggga ccaagagcag agccatggta ccgggaaagg ttcaacaaaa ataaggtaaa 120
 aaaatgtgtg tgtctgtgaa aaaatttggc ccgttacggg ggctaaaaatg caatgggtgca 180
 acctcagctg atggccaagt cggctaccta ggttcaaacg aatctaccgc gctaagcctc 240
 cgaagtagct ggtaatacag ggcattgcgtc acgatgccca gccaatgtg catgcttagt 300
 acagactggg ttccaccatg ttggtcagcc cctcgaactc ctgacctcag gtgattcgct 360
 gcctcggcat cccaaagtgc tgggatacag gcctgagcca ctgcgccaccg gtcgcaaaat 420
 gtttctgagc agtggtttat actgtagtct gctttcatac ctacatttat cgtatttata 480
 tatttattta ctgagacagg gtctcactct gtttcccagg ctggagtatg gtggcacaat 540
 cttggcttac tgcaacctcc acctcccagg ctcaagcaat cctcccacct cagcctccca 600
 agtagctggg actagagatg tatgccatca cacctggctt tgtgtgtgtg tgtgtgtgtg 660
 tgtgtgtgtg tgtgtgtgtg tgtgtagaga tgaggtttca ctatgtttcc caggctggct 720
 tcgaactcct aagctcaagc gatccacca tctcggcctc ccaaagtgtg gggattatag 780
 gcataagtca ctgcacctgg ccatggcatg attcttttat ctctcctggg gctgaactcc 840
 ctacatttgc ttacacctgg cctggaagac ccaagatccc cctcacaata ctacttctat 900
 acccagggcc aggtgatgtg ttggtttagt tcaggactga gctttattat gcatctccca 960
 gcaggcaacc tggggcttct gatactgccg gggagagctg ggggaatgga gctgttcctg 1020
 acttctaca caaggagtgg ctaatcttct gtcccttttc taaccaaagc catctctgga 1080
 ccaccaagag caagtgggca gaggtccctc atcctggcag gagagcagag ctgccagcaa 1140
 tgaaagaaca gaaataggca aatgagaact caggctctgt cacagaacct tcctcctctt 1200
 agtccatcct tcaactgaaga tgggatgttt attttttaata taattaatta atttattttt 1260
 tgagacagag tctcgctctg ttgccaggc tggagtacag tgggtgcagt gtgcatctc 1320
 ggctcactgc aacctctgcc tcccgggttc aagtgattcc cctgcctcag cctcctgagt 1380
 agctgggatt acaggagcct gccaccatgc ccggctaatt ttttgtattt ttaatagaga 1440
 cagggtttca ccatattagc cagatctoga tctcctgacc ttgtgatccg cctgcgtcgg 1500
 cctcccaaag tgctgggatt acaggcatga gccactgtgc ccagccagat gtttactatt 1560
 atgtgtctgg atacattggc aaacaagatc gctgttactc tttttttttt tttttttttt 1620
 tttgagacgg agtctcgaac tgttgcccag gctggaaggc tggagcgcag tggcgcgatc 1680

tcaactcgga	gatactgca	acctctgcct	ccccggctca	agcgattctc	ctgcctcagc	1740
ctcctgagta	gctgggacta	cagggtgcacg	ccaccacgcc	tggtcattt	ttgtactttt	1800
agtagagacg	gcgttttcacc	atggttggtca	ggatggcttc	tatctcctga	cctcgtgata	1860
cacccgcctc	agcctcccag	agtgcctggga	ttacaggtgt	gatttgccgt	gccccggctat	1920
cctagctgtt	actcttttacc	agatccagta	taggcccctg	ggactggagt	ccaaggcatg	1980
aatggttctc	ctgggtccact	ttctggcctc	tttctcctgg	tgtgacctca	aacccccgtta	2040
ccctattatc	ccctctatca	gaaaaatgga	gacgatgcat	actgccacc	tggcacacaa	2100
gggaggagga	aatcgacact	tctgaagatc	tatggttctg	cacccacctc	cacagcctgc	2160
accactacct	tggttcagcc	agcataggag	tccctagctg	cttctctctt	gtcccagggtg	2220
tctgtttcca	gaaaggagag	gactgagacc	cagcagttat	ccttccaggt	tctgggtgtta	2280
taacacagct	tgttttactt	ctaaaaattt	agtgtcagct	gtgtacctag		2330

<210> 4

<211> 266

<212> DNA

<213> Homo sapiens

<400> 4

cagagtgaga	ccttgtctca	aaaacaaaaa	tacctagaaa	atcaatctac	tctgtctttt	60
aatgtgaaat	gttcttatga	tagctatctt	tcttagtttc	ctttttttct	gaagcactaa	120
acacaacctg	taggtcttat	ctctggggtc	tgggaaacag	aaccttaatg	ttacaggtag	180
aaaagcaaac	agagtgatta	gttccccatt	ttctggtagt	gaacaactga	cattttttca	240
atcttatgta	aaatgtgaat	aaaaat				266

<210> 5

<211> 1483

<212> DNA

<213> Homo sapiens

<400> 5

atgagtagtt	ttcctagctg	atTTTTTTTT	TTTTaataga	TTTTgaagtc	agatggataa	60
aaatgccatg	tggaacagtg	cttacttttg	cattatgaaa	atTTTataat	TTaaccctaa	120
caaaagtga	ataataattc	ttgagtttca	tgccttttga	ggTgcctttt	Taaaaataat	180
caaaatgttg	ttgggagacc	ccatccaatt	taatcgggtg	ttattttaatt	atactactat	240
aattgttgta	tttgacaggtt	tgactgttct	cagggaaacgc	tgaagggtca	taacagtagt	300
gatttgtaat	tgtgaggctt	gagtgtggaa	ttgaattact	tcattaaaga	gtaaccagtt	360
actgagaatc	catgtttcat	tgagactggg	gtttttctac	tttatccttt	TTTTTTTTTT	420
tttgagacgg	agtcttgctc	tccagcctgg	caatcagagt	gagaccttgt	ctcaaaaaca	480
aaaataccta	gaaaatcaat	ctactctgtc	TTTTaatgtg	aaatgttctt	atgatagcta	540
tctttcttag	tttccttttt	ttctgaagca	ctaaacacaa	cctgtaggtc	ttatctctgg	600
ggctctggga	acagaacctt	aatgtttacag	gtacaaaagc	aaacagagtg	attagttccc	660
cattttctgg	tagtgaacaa	ctgacatttt	ttcaatctta	tgtaaaatgt	gaataaaaaat	720
aatttttagaa	aagttatcta	tttttatgtt	ctgtaacaca	aatagtttaag	aaaatgaata	780
cttgttatgt	aatgaagct	tcacagcagg	acctccggca	taactttgat	catgttgtat	840
ctcttaagca	ttttatatag	gaattctggg	gtggctaccc	aaagcagaag	ggaaggcaat	900
caactaaaaa	tccctttcta	ttgagttatt	ttcatcatgt	aaattacttc	aggcttttct	960

tggttagggct tcttgaatgc acatttgtca ttatctgtat accaaaggtg agcttttttt 1020
 tttaatccat gtgattttta tgagttgaaa gctataaggt tttttaatta aaaatttcct 1080
 tctaaatggc aaatttgtgt gacagcattt aagacactca gtttctattc aaaagcaata 1140
 agaaaacaag ttatgttcac gggttatgtc ataataaggt ccctgggact ttattaaact 1200
 gtcactctatc atactgctat gaaatctggc cctagttttt aacagatcct ctgaccagtg 1260
 gggtactccg ggacttcacg tgccccgttt cccaacacct cgtcctgtct cggctacact 1320
 tgaagcttat ggtctttcca atgcgacagc ggggttggca acggcatata ttccgcggct 1380
 gagggccccct gcccacaagag ggggacgcgc cccctgcgga ctttttccgg tggggcaccc 1440
 tttggggcat acaactcccc gaggttggtta taagtatact ata 1483

<210> 6
 <211> 345
 <212> DNA
 <213> Homo sapiens

<400> 6
 tatctttcca tgetgtctgg ccttgggtcag tgctatccca gccatctta actcattttt 60
 ctctccttga acctgagaga agatgttgca gtctagtc ttttctccc aggaggcatt 120
 tctgcccttt gcaaattcat ggatgctaaa caaatgtgg agaaaacata ttgccctgct 180
 ctactctggca gcttccaaga ttcaatgata tattgggaaa ggagtaactc acttcccctt 240
 ccagcaacat gtaagcccta gactcctgcc aggccaaaaa tatccccgat taaacaaatt 300
 atgtagcaga aagtctttga attaataaac caaatgtgaa taatt 345

<210> 7
 <211> 491
 <212> DNA
 <213> Homo sapiens

<400> 7
 acaaccatac cagaaggggt tccaccattg gccatactct ataatcagaa ccaatgctct 60
 tcacctacaa tccggacact ggtatagcac ttgtcagggg tccagactct ccctctttta 120
 tagtaggttt cctcttgagc ctttattatc tttccatgct gtctggcctt ggtcagtgtc 180
 atcccagccc atcttaactc atttttctct ccttgaacct gagagaagat gttgcagtcc 240
 tagtcctttt cctcccagga ggcatctctg ccctttgcaa attcatggat gctaaacaaa 300
 atgtggagaa aacatattgc cctgctctat ctggcagctt ccaagattca atgatataatt 360
 gggaaaggag taactcactt ccccttccag caacatgtaa gccctagact cctgccaggc 420
 caaaaatatc cccgattaaa caaattatgt agcagaaagt ctttgaatta ataaacaaa 480
 tttgaataat t 491

<210> 8
 <211> 91
 <212> DNA
 <213> Homo sapiens

<400> 8

cccacgcgtc cgaaagatag gccaaagctgg taccaagcat ggatggattt gtcaaagatc 60
 aggccacctc atctcttcca ttggccacca g 91

<210> 9
 <211> 890
 <212> DNA
 <213> Homo sapiens

<400> 9
 cgtaatttgg agttctcctt cgaatttgac caactcaggt agagttaatc aaatctgatg 60
 gaagaaaacc aaaataacaa aacaaatatg attactgagg acttttaatg gtaaggagaa 120
 gttaagacca gttacttgtc aatcttaact tttagtcact aaggggaatt ttcaagacaa 180
 aactctaatt gagctactta cctaggaatg aggctcacgc tgaacactgc tgtctaccat 240
 ctatgaagca ggaaaaaact caaactcact ttctctgttg gaagggagca gaaactccag 300
 aaaggacttg ctggccctcc atcatcatgg aaacaggaaa actaatcttc cttgttggaa 360
 gtgagtaaaa ctccaaaaaa ggaggagtgg tacagcaaaa tgaaccttag acctcaacca 420
 aatttgggga gagcaatgat tctctgaagg gacctccag acctcagcaa attgtattat 480
 tggtttgagc aataaagata ggccaagctg gtaccaagca tggatggatt tgtcaaagat 540
 caggccacct catctcttcc attggccacc agtttataaa ccaaagagta tctgagacag 600
 gtctcaatca attcagaagt ttattttgcc aagggttaaag acatgcctgg aagaaaataa 660
 catggaccca caggaacagt ctgtggtctg agtctttctc caaagataaa tttcaaggct 720
 tcaatattta aagggaaaat gtaggctgga ggggagaggg gtagagtata gtaatcccca 780
 tgttgtaaga gaaaaggagc ggggtacggga atagtcaatt atgtattcat ctcatgctca 840
 ataaattggc actttacata agaaaaaaaa aaaaaaaaaa aaatgcggcc 890

<210> 10
 <211> 386
 <212> DNA
 <213> Homo sapiens

<400> 10
 gactgaaatt agaaatgaaa aaaaagggtta ttcattgatt gaattagcag tgtctggcac 60
 acagtaatgt aatatataaa gtaagttggg cttggatgcc atctaaaagg gcttagttat 120
 tgaagcagtt ttattttctga agtgatacta aagaataggc atgcgtgtcc aggctagtta 180
 cagttaaatt taggaataag gcacagtaat aaagatacta tcttttagact tgaaaattat 240
 aaatccttag ttgttattcc ttatcagttt ataaagttaa caatgaatgt acagactaca 300
 agctatcaaa tgtactgtag atgaaaaggg caataaacac tagtcagagt tagaggtaga 360
 atgatataat ggaaagggtac gaattg 386

<210> 11
 <211> 458
 <212> DNA
 <213> Homo sapiens

<400> 11

```

gaaaaaaggt ttatatctca caattgagtg ttccgttgta gaatgtctct tatatatctt 60
tagagtgtta ctatgtcttg ttcaagtagc acaggggccg ggaaatacaa tttgaaggga 120
gaggctaatac tttaaaggca gtcattgatt gtatttttaa ttacaattta caaccccatg 180
gtaatgaaca cataggctaa acaaataata actcaattaa aataacatgc aatgatactt 240
tacaaaaatg ctgctgagaa gaacatcgag ttacatcat gctgaatata taaaaatagc 300
tagatgacta tttaaccttc ttttatatg tatagatata gcgttataat tttccacta 360
gaatttaatt ttatattata gaccctttca gtgccttcag tgaccctatg agtgtctttt 420
taagattgcc tttggaccct ggtgtcggtt tgggactg 458

```

<210> 12
 <211> 490
 <212> DNA
 <213> Homo sapiens

```

<400> 12
gaaaaaaggt ttatatctca caattgagtg ttccgttgta gaatgtctct tatatatctt 60
tagagtgtta ctatgtcttg ttcaagtagc acaggggccg ggaaatacaa tttgaaggga 120
gaggctaatac tttaaaggca gtcattgatt gtatttttaa ttacaattta caaccccatg 180
gtaatgaaca cataggctaa acaaataata actcaattaa aataacatgc aatgatactt 240
tacaaaaatg ctgctgagaa gaacatcgag ttacatcat gctgaatata taaaaatagc 300
tagatgacta tttaaccttc ttttatatg tatagatata gcgttataat tttccacta 360
gaatttaatt ttatattata gaccctttca gtgccttcag tgaccctatg agtgtctttt 420
taagattgcc tttggaccct ggtgtcggtt tgggactggc actaagtgc atcctaaaa 480
ttccataaaa 490

```

<210> 13
 <211> 64
 <212> DNA
 <213> Homo sapiens

```

<400> 13
agaaatgtaa atgctatatt agaaaatatt tactaagtcc aagagaaagc aataatagag 60
gcac 64

```

<210> 14
 <211> 921
 <212> DNA
 <213> Homo sapiens

```

<400> 14
accacttttg ttccgggctat tgtctctgat gactttctat tgctccctat ttaccctctg 60
ctgtcttnag aaaagggaact agagaagtac agggctgatt gtagggctgt gtctagggca 120
tattccctgg aaataaaata ggttcttgga gctgtactga gagcagcttt cgacctgct 180
aaattcctat tagtagtttt ttttaaata accaatgtgc tattaatatg tattctttgg 240
tgaaactgtc caaatatatt gaccatcttt tttttatta ttattattga tatagctgga 300

```

```

ttcaggagtg ccaactttat catttttagt gtgtctctta tcttttttgg ccctctatta 360
ttgctttctc ttggacttag taaatatatt ctaatatagc atttacattt ctttgatgat 420
ttttttccac atatattttt acttgatatcc ttgttagttc ctctaggaac ttacaatgta 480
ctatttttat tattattttt ttttaagaga gagtctcact ctgtcacttg ggctagaatg 540
cagtgggtg accatggctc accagaccat caacatcccg gggtcaagca attctcctgt 600
gtagttggga ctacagggtgc gtgccacaat gcctgggtga tttttgtgtt ttttagtaga 660
gacagggttg caccatgttg gccaggctgg tctcgggctc ctgggttcaa gtgatctgtc 720
tgccttggcc tctccaagtg ctgggattat aggtttgagc cactgcaccc agcaaaaaaac 780
caacttttta aagcagaact tctgaagaaa gataaatatg tattaatgtt gactatgtga 840
cagatgccat gctgtgtatt acatgcttct gttcatttca tactccctag taatactgat 900
aatgtttttg gatagtcatt g                                     921

```

<210> 15
 <211> 270
 <212> DNA
 <213> Homo sapiens

```

<400> 15
tgaacatcgt ctttcttagg tgacttctc cacatagtta tttgtgaatt gtaatatgtt 60
gtggcaatat tatccaaaaa gtatttgttt ttattgtatt ttgcaatccc taggacatat 120
taaatagctc aagtgatggg atgttcttct taaaattcga tctcatagtc taaaatgggtg 180
acttgcacat gagttagcct cattaagtc tggacgaatg gcaaagctga taatttcctg 240
tctcacttct ggatatcaca gtgtcatctt                                     270

```

<210> 16
 <211> 651
 <212> DNA
 <213> Homo sapiens

```

<400> 16
cgatggagct tccgagggga aacggctggg tatcttataa gtcttgaggg ccttcactcc 60
cccaaccatg tcttttgaac attttttatt ttcttttag agacaggatg tctctatgct 120
gcctaggctg gagtatagt gtgggatcat agctcactgc aagctcgacg tcttgattc 180
aagtgaactt actgccttga cctcccaa atagctgggact acaggcgtgc accaccatgc 240
tcggctaatt ttacaatgt ttatgcagat ggggtcttgc tctgttgctc aggcctgtct 300
caaactcctg gcctcagatg atcctcctgc ttttgggtcc caaagtgtg ggattgcaga 360
tgtggctcac cagccccagc ctgaacatcg tctttcttag gtgacttct ccacatagtt 420
atttgtgaat tgtaatatg tgtggcaata ttatccaaaa agtatttgtt tttattgtat 480
tttgcaatcc ctaggacata ttaaatagct caagtgtgg gatgttctt ttaaaattcg 540
atctcatagt ctaaaatggg gacttgcaca tgagtttagc tcattaagtc ctggacgaat 600
ggcaaagctg ataatttcct gtctcacttc tggatatcac agtgtcatct t                                     651

```

<210> 17
 <211> 702
 <212> DNA

<213> Homo sapiens

<400> 17

```
gcaaaatacgc ccaggctgtg tgctgaaggc atcccatctc ttcctcgtcc cctctcggct 60
ggatcgggggt ggggcagcgg gtggatgagt gtgtctgtcc tgccagttca gcctccaact 120
gggtctgtgtg ggggcaggag cccacctggc tctcctgcag agctgcatgg cctgccttgc 180
ctcaccctgtg acaacagaga ctttggttct ccatctgcag acgcatttgt cttgttttct 240
attcgggtcca gaactcgggt gggaagaagg gtgatgtgat ttgggtcccc tcaagacctt 300
gacaacagat agtttttaaat atcacatttt aaagccgccca actttctctc ctccactttg 360
gtatttccct gattttttaa cagaatgtcg gctctggagg cagaaagctt gggcttggat 420
ctgggccctg ccacgcagta gctatgtggc cagggaatac atagcttccg gatctccgat 480
ccctacagta aagtacagat aaaaataact ttcattgatg tgtttgaaat cgaatgagat 540
agttaatgaa tgagtaagt ctctgcaaac tccagagcgg ggtgcgcgtt ctgatctgtt 600
tcatagaatc tgacacgtac cctttcccac cccagcgtct ctgaattggg atgcatctga 660
cagcaagtgt ggcattccgg ctgcagttgc cgttgtctgc tc 702
```

<210> 18

<211> 1760

<212> DNA

<213> Homo sapiens

<400> 18

```
gtccaccgtg aggatgggtca ccccccatag ctttgttgat gctgtggctg tagcaggccc 60
agtggctccg ctgagcctcc ctagcaccag tgcccagtga agtgtggggg gctggacata 120
gggtggcctca gttcctggga ccccccaaaa gctctggttt cccccctgct cccaggcttc 180
aggtggacga gttagtgacc acccccactc cagacctccc tcccctagcc acccccacag 240
ttataaaaaac cttcattctc atatggaacc ccctttcctg aaatccgtag agtgactgac 300
tgctttcttg agtgaatctg gactgggcca catgatgac gctgtacaga gcagctgagc 360
tcctctgtct cagcctccct gagttcacag caggctctgg gcatcatctc cgtgtcatcc 420
taaggccacg ggcgggggtt ccaccaaaac ggagagcagc tctcccgaga tgaagccttc 480
tgatagccct agaaccaaga ggaaccgtgt ggggttgggt ggggtgttta ctgtgactc 540
ctgatgttcc ctcccagtga aggacaccca cctgggacac tgtggccctt ggccctccct 600
ccctcccctc ggtggcagag agaacttcct ggtgggtgac agcccatggt ccacccttgc 660
cagggtgatt caggcaaaat acgccaggct gtgtgctgaa ggcatcccat ctcttctctg 720
tcccctctcg gctggatcgg ggtggggcag cgggtggtga gtgtgtctgt cctgccagtt 780
cagcctccaa ctggtctgct gtggggcagg agcccacctg gctctcctgc agagctgcat 840
ggcctgcctt gcctcaccg tgacaacaga gactttggtt ctccatctgc agacgcattt 900
gtcttggttc ttattcggtc cagaactcgg gtgggaagaa gggatgatgt atttggttcc 960
cctcaagacc ttgacaacag atagttttta atatcacatt ttaaagccgc caactttctc 1020
tcctccactt tggattttcc ctgattttta aacagaatgt cggtctgga ggcagaaagc 1080
ttgggcttgg atctgggccc tgccacgcag tagctatgtg gccagggaat acatagcttc 1140
cggatctccg atccctacag taaagtacag ataaaaatac ttttcattga tgtgtttgaa 1200
atcgaatgag atagttaatg aatgagtaag tgctctgcaa actccagagc ggggtgctgc 1260
ttctgatctg tttcatagaa tctgacacgt accctttccc accccagcgt ctctgaattg 1320
ggatgcatct gacagcaagt gtggcatccg ggctgcagtt gccgttgtct gctcacatgt 1380
gaattaaaaa aacaatctca gcatatgaaa tctctaactc cgtatgaact tgggtggttat 1440
tcctgggtgcc gtgtggataa ctgcagcctc aacaccccag tccacaaacc acgtacggac 1500
```

caactgagga aggagtaggg gttcttggtt ttgcagaaaa ccctccctca acttgcctta 1560
gaagatacca gcattcatac ttggagtgagg catcagcagc ttggaagaca cagcagtgagg 1620
ccctcttag caggagtgc ccattctcat ggctcccgac gacgacccag aggggtgatg 1680
ctgcgtaggg gctcacggac attggcactc taagtcagag atgctcaggt gaagggggct 1740
ctgatggtga ggacattcag 1760

<210> 19

<211> 284

<212> DNA

<213> Homo sapiens

<400> 19

gataattttcc ttcagagacc ctttacattt gagagatcct ttagactttt gtaaaactta 60
ataatttttaa ttaataacta gcgtaattg aattcttcct ctgtgcaagg ccacgttcta 120
agtgccttcc tcacagcaat gctgtgaagt acttatcctc cttgttcttc tgaggaaaca 180
aggctgacag gcctgagatc acagagccag taaatggtag agtcaggaat tgaacctgag 240
aattctgact ccagactttc ctgcttttag caccgtgcag tact 284

<210> 20

<211> 1150

<212> DNA

<213> Homo sapiens

<400> 20

gataattttcc ttcagagacc ctttacattt gagagatcct ttagactttt gtaaaactta 60
ataatttttaa ttaataacta gcgtaattg aattcttcct ctgtgcaagg ccacgttcta 120
agtgccttcc tcacagcaat gctgtgaagt acttatcctc cttgttcttc tgaggaaaca 180
aggctgacag gcctgagatc acagagccag taaatggtag agtcaggaat tgaacctgag 240
aattctagac tccagacttt cctgcttttag ccaccgtgca gtactgccta ttgggtcagt 300
taccctgaga tactcagttc atttttagttc ctctaaagtt ttgttattaa aaagtactg 360
taaattgcatt gtgtccagag cattatagca tactttttaa aattattcac ttcttaagaa 420
ttctactcat ccacccctca tcttttgaaa attaacactt tacctacatg acttaaaatc 480
atctgaagac ttttaataag ttgctgagtt tcatgtttca aaacctgtta tctactactg 540
gagcaattaa aattaaccat acaacaggta acagggttaa gtgactttgc cttgggtttta 600
actaagcaca ggttttaagt ttgtaagcgt ggatagggtg ggagcaagct ctctagtggg 660
aatggatttt aaacctaaagt agtaagtga aaccatgcag aggcgtgctt gtcgctgtga 720
gactgtgctg tatgtgtcta gactggtgga gcagtacaga gaacagagct ggatgactat 780
ggccaatttg gagaaagagc tccaggagat ggaggcacgg tacgagaagg agtttggaga 840
tggatcggat gaaaatgaaa tggagaaca tgaactcaa gatgaggagg atggtaatat 900
tatttttatt ttatttatct tttttgtttt ttaagtgaag ctggaaatct ctttgcttat 960
ttgacatctc ccaattttta aatgtggcaa ataattaaaa ataatgttgt atgggccaaa 1020
ggtagtcggc tgagctagtc taattcaagt aatttgatta acaaattctt ttctgaccat 1080
gtcctaaaca gtgtgtactt ctagctgcat aatatgacaa atggacatgt ttaccagtgt 1140
gactattttt 1150

<210> 21
 <211> 226
 <212> DNA
 <213> Homo sapiens

<400> 21
 aaaaataaaa aaattcaatg aatcctgtaa atcctttcat tataaaataa atttggtatt 60
 gatatacaat tatggcctct gagtagcctt tgaatcatct ttagattcta aacttaattc 120
 tgaaaatatg ttttaccata gtataaaata gtttttatgt ttatattaga aaaatgatgt 180
 tttaaatttat ttctaagaat tacttttaggc cagggtgcaat ggttca 226

<210> 22
 <211> 270
 <212> DNA
 <213> Homo sapiens

<400> 22
 gcgtggccttc gattccggcg cctgcgtgtc accagcccag ggtggccgtg gaagctggac 60
 ccgagcccgca ggccccccag gctgggcctg ggaggaaagc ggtttgaaaa agatcggaac 120
 tgaggaaactc tcttagagcg ggggactccc tgctcctaca gccttaacca atgccagcg 180
 cttggaaagt ggaggactcg gggattcggg agcgtttcag gcctggggaa atggaagggt 240
 cggggaccta ggtgaaagggt tatttgccag 270

<210> 23
 <211> 245
 <212> DNA
 <213> Homo sapiens

<400> 23
 ggcacttgga ttgtctccat tctctgcacc caagctgtca gggccctcac cagaatgttt 60
 acctaacacc ttctctctag tctggagtct ttgtagatgg aaaacttgat gtataaccct 120
 ttgacttgat ttccaagaag caacagagtt aaaactgtta tttctaggtg agtggccttc 180
 tgcaggtgtg gtcaggtatt tttcctgaca gaggctgctg ttcttggtga ttgctttttc 240
 ttttt 245

<210> 24
 <211> 460
 <212> DNA
 <213> Homo sapiens

<400> 24
 attttttggtt ttaaatccca tacattctag tatttttgag acttttcact gcaaatttta 60
 acatgcaaaa tgtacggcct ggtttcata agcataaata gtataaatgc caacaataag 120
 aatgtcttct aagcagctaa atcttgtaag tttagttgga attgagacca gctatttggg 180
 taagcgaatt agagtcttag tattgtgaagt gggatatgtt atgtggcaca gggttgccaa 240

ctgcctgagt ctattcgtga gtcagaacga ctttgcctgat gtgttgggcc aagccagccc 300
 tgggtggcag cctgggtgcag ccgtaaaatt cagccttaca aacagtctcc cgccattccc 360
 gcaccatggg acttttagtgt tgtgtgtaac aacagtataa cctgctgtta gccattatc 420
 aactgactgc tatgctaaac caaaattata ataataatgc 460

<210> 25
 <211> 257
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (93)..(192)
 <223> a, c, g or t

<400> 25
 gtataatgat actaatcgta aaaacaaaaa aaatctacta agtacttacc atttggttaga 60
 cactgggttg agagttttat atgcattgtc tgnnnnnnnn nnnnnnnnnn nnnnnnnnnn 120
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 180
 nnnnnnnnnn nnaacctcag aggccaagct cttaggcact gtgatatact actggccttg 240
 ctcagtaa at ggacctt 257

<210> 26
 <211> 221
 <212> DNA
 <213> Homo sapiens

<400> 26
 ctcgagaccc cacccttcc tggattcatc agtgggctcg gaagagcgtg ggaaaggcgc 60
 taccttgggt ccacaccacc tgagtcagct ggggctactc ccagctctcc ggggtgggaa 120
 actggtgcct ctggcaatgg cctgctgagt atttaacccc aggggcagca gattccttgt 180
 ggggtgtttt ctacaaatta aacaggaagg ttttttgcag g 221

<210> 27
 <211> 347
 <212> DNA
 <213> Homo sapiens

<400> 27
 tgcttgccctg gctctggctg gggttcgtta gggctggggg tcttgaaggc cctgtctaa 60
 gaagggagta ggaatccagt tatatgagtt cagctcatc aggaacctgg catatttgat 120
 tgagagatat gtccagtgat gccctgttgg aagctgctca tgaacagggc ttggctccttg 180
 acacttgggtg ggcaagtaat ttacagggga aatgacaatg ttaatcctgg cccctggggg 240
 gctggcagtg tggtaagga gacccaacac acacagggat gggaccaac acaagctaag 300
 gaaggggtcca ccccgagccc tgatgtctgc tgggaacaaag agaaatg 347

<210> 28
 <211> 338
 <212> DNA
 <213> Homo sapiens

<400> 28
 ttttttaaatt gtgaactata acacttagga tattgcatgg atcatcaaaa aagataaatc 60
 atctctttta aattctgtgt ttttttaaaa aacaaataat agatacagat gtctgagtat 120
 ttttaagacat tttggggatt ctagtaatta ttagtgccat taaccacaaa gacaaaggaa 180
 ggggtctgtc ctttttaaat acagtaatct cactgtagag ttcaagccat gagttcacia 240
 gtatcttaat attgtacnaa aaccttttct ttttcattct agcctcttaa cccctaagca 300
 aaacaaatga aaaaaatgta cttaaaaact taatgttt 338

<210> 29
 <211> 622
 <212> DNA
 <213> Homo sapiens

<400> 29
 gcctgaagct gctctctagg aaaatgtggc attctctgct tgggggagggc tgggggtgggg 60
 gtaagagaga gggaagatgc cctcagctcc caccaaggag cataaataaa aagagaattg 120
 acccccacgc acccttcaat agcccaccag agttgccacc aaacagtgtg aaaacgtgtg 180
 gttttgacta ttctgatgaa aataatggat gttctgtgga gatttgtaga gcacacacac 240
 atatgatttc taaatcaaat tcagttgcaa ctgttcccat cagaaagacc catcaagccc 300
 ataaaagaga tcccttcata caaagatctc tttgcatccc aatttccacc cattctacat 360
 gcattttcaa acccatttcc tgatttact gtcattagct agaaagcagg gggctattag 420
 cctggattgt aaggcatcca tttctccttt ttttgtttca ttagccatgt aggaagatat 480
 ttttctttta tggttgatgg catctgtttt taaaaatgga taaactcttc aaaacatagt 540
 ttctgattct ggtagcact agatgagcag ctgtaaaata ataataatag tttgaggggt 600
 tgagaagagc tttctttatt tt 622

<210> 30
 <211> 518
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (260)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (262)

<223> a, c, g or t

<220>

<221> unsure

<222> (333)

<223> a, c, g or t

<220>

<221> unsure

<222> (337)

<223> a, c, g or t

<220>

<221> unsure

<222> (343)

<223> a, c, g or t

<220>

<221> unsure

<222> (354)

<223> a, c, g or t

<220>

<221> unsure

<222> (371)

<223> a, c, g or t

<220>

<221> unsure

<222> (376)

<223> a, c, g or t

<220>

<221> unsure

<222> (380)

<223> a, c, g or t

<220>

<221> unsure

<222> (470)

<223> a, c, g or t

<220>

<221> unsure

<222> (304)

<223> a, c, g or t

<220>

<221> unsure
 <222> (310)
 <223> a, c, g or t

<400> 30
 cagatcccca aattcctctc caggatgggt gcacgtggcc cctcaggaac cggggaagtg 60
 cacgtgtggg tggagaggtg tgaggaaaag agccagcttc cggacacggg tgcaggttct 120
 ccagcagctg agctcccgga gtgtcaagtt gccggagggt ctgtgcctga gcaagcagag 180
 aaggaaactt aagcctctaa tgaaaaggcc tctgtttctc ttgcaggaga agcccccaga 240
 gggtaaatggg gcagtggccn antggcctgt ggtgacccca aggaggggga ggggccaggg 300
 ccanctgggn cctcagaata ttgttcctgt gtnttcnttc gangcgggtc tggncctgct 360
 ccgcagcctg ntgggntcan gactgaacag tctcctctca gctcatggg cggttgtctc 420
 tgggcacagg ctactcttaa cctgcctcc ttaacccac acagggcagn ctctgtctgc 480
 taaaaatatt tctggggaca cggctctaaa aatgaccc 518

<210> 31
 <211> 556
 <212> DNA
 <213> Homo sapiens

<400> 31
 cagatcccca aattcctctc caggatgggt gcacgtggcc cctcaggaac cggggaagtg 60
 cacgtgtggg tggagaggtg tgaggaaaag agccagcttc cggacacggg tgcaggttct 120
 ccagcagctg agctcccgga gtgtcaagtt gccggagggt tctgtgcctg agcaagcaga 180
 gaaggaaact taagcctcta atgaaaaggc ctctgtttct cttgcaggag aagccccag 240
 aggtaaatgg ggcagtggcc tagtggcctg tggtagcccc aaggaggggg aggggccagg 300
 gccatctggg tcctcagaat attgttctgt tgtcttcttt cgacgcgggt ctggccctgc 360
 tccgcagcct ggtgggctca ggactgaaca gtctcctctc agcctcatgg gcggttgtct 420
 ctgggcacag gctactctta acctccctc cttaacccca cacagggcac gccctcctgc 480
 tgtacaaat atttctgggg acacggctct aaaaatgacc ctgccttcca ttcactggac 540
 agtgaacaca agaattg 556

<210> 32
 <211> 330
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (151)..(176)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (247)..(273)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (311)
 <223> a, c, g or t

<400> 32
 tctgtgcttt gtgtaacttt ttgctaaatt cctgtctttg tcttcttgga acagtcttct 60
 acttggtaca ggatcttctt atcttttgga ttttatatta gttttaatat aaaattaata 120
 tagttttata ttatatagcc cactgacatg nnnnnnnnnn nnnnnnnnnn nnnnnntgac 180
 ttggccagag ccttcagttt cttatctctg gtaagaggta atgtgtctct ccctagggca 240
 aggctgnnnn nnnnnnnnnn nnnnnnnnnn nnngatgtgt gagagaagca gggagagtaa 300
 gaatcaagac naaactgcag tcttttatac 330

<210> 33
 <211> 431
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (420)
 <223> a, c, g or t

<400> 33
 aagacagcta agtaagtggg ggtaggaaga aagactggac aagggtttga tggactggct 60
 atgaaagatg aggaagagag aagtcccagt tgggtaagag gaagttttta aggaccacca 120
 agaaaatggg gacactctta ttagataacc tagaaattag acaaggatga gatgttatct 180
 ggatattcaa atgaaaatac cctctattca gctatagtcg ggctactggg gttttaaggg 240
 agaatttcag atttgtggaa ctcagagagt cttttgcatt tcaaagaagt gataattgag 300
 aagctgtgtg acaactaagg ttgtactaga agaagcttag acgtgagagc aggaagaatt 360
 catggacagt gctaagttag gacatatatg ttacacagat gacaccagtc tggatgttgn 420
 agcccagaca c 431

<210> 34
 <211> 275
 <212> DNA
 <213> Homo sapiens

<400> 34
 atttgattaa ttttgctttt gtagtttgct ataaaaccac agtcactggt tcattacaat 60
 taaagataat tgggtacgct actcctgagg gaaaccagca ttcaaaatgc atccccctcca 120
 tagtttttat tatttgtgag agaatgtctc attaataatt tcagagcatt ttggatttca 180
 aaatatattgc cttagacctt cttgcctcct cttctcttgt agagccatat gggtcctttg 240
 tactcagaaa attgaaaatg agccagggtg cagtg 275

<210> 35
 <211> 497
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (486)
 <223> a, c, g or t

<400> 35
 agtgatttca ttatctccaa tgtgtatggc ttgatagaaa tagattccat tatgtagcac 60
 cttaaatcca gataaaacat aaggaatttc tattccatgt ttgtatgata aatgttaata 120
 atctaagaaa atctaaaaag aagctacttc ctctattaca gtatgaaata aatagtctga 180
 atgatttggt ttgggggggtg gaatggaaag gtataagact gaggaggggtg cctgtgggaa 240
 cagtgatagg aatcctttct taagggttgg gttttacata cgtcttttaa aatagatgat 300
 atcattaata aattatctgt gggcatcatg aaaaaagtgt ataacgtaca actttatgag 360
 cttgacagtt ggtgaaaact tttctgttta aaattttatt tggccctccc caaaagaaat 420
 gggtatttat gagtattagg atagttccag cagtaatgcc tcaaaagaac caggaggtat 480
 agtgtngtct aaaatgt 497

<210> 36
 <211> 1796
 <212> DNA
 <213> Homo sapiens

<400> 36
 tgcattctagt ccaccacctg tttttgtaaa gttatcagaa cacagtcattg cccattcatt 60
 tacaaattgt gtatggcttc tttccctgca acagcagagt tgagtgttgc aacagaaacc 120
 tatggcctgc agagttaaaa atatctaccc tttggccttt tataaaaaaa gtttactgat 180
 tcctgggtgag tatattaaaa agttaggaaa acctaaatct tccagagtgg agaattagaa 240
 agtaagacgt gttgtatata agacagacag tttgtgtgtg cgtttattta taaatatatt 300
 attctgaaat aatgttgtcg acatatgttg caggctctta aaattgggtca atatatagtg 360
 ttaatcaaaa aatggcaaat tgtaaaatgt agacagaatg tgattgtgta ttttgtgcat 420
 acaccaacag aaaagggtgc taggaaacct gtggaccaac atactaagtg tggctctttt 480
 gatgggtggt tcatggattt ttaaaaatct tcttgggttt ctgtagattc tgactttcct 540
 gtaatgagta tgaataagta tgtatttctt gagaaatgtg aaaataactt tatcttccca 600
 gatttctcat aattgaaaat gttggaataa atggctcctg gacagatctt tccattgaga 660
 agggcggaag ggaaacctg gggattcagc tgggtttctg ttgcatttct ggtaacacac 720
 agttgtgaaa agccagtgtt ggccattccc caggacagtc tggggtagag gaggtcagga 780
 tttaactact tgagggtccg gggaacagat gtggccacag tccttctctga ctactgttt 840
 tcccttccac agtccccgtc ttctcttcac tgatgcacat agatgcctga ccagaggaga 900
 gatttagttt tcgtccaagg attatctgtt atgttgacat tctgaaattc ccataacgtt 960
 taggctagaa cacaagtgat ttcattatct ccaatgtgta tggcttgata gaaatagatt 1020
 ccattatgta gcaccttaaa tccagataaa acataaggaa tttctattcc atgtttgtat 1080
 gatcaatgtt aataatctaa gaaaatctaa aaagaagcta ctctctctat tacagtatga 1140

```

aataaatatg ctgaatgatt tgttttgggg ggtggaatgg aaaggtataa gactgaggag 1200
ggtgcctgtg ggaacagtga taggaatcct ttcttaaggg ttgggtttta catacgtctt 1260
ttaaaataga tgatatcatt aataaattat ctgtgggcat catgaaaaaa gtgtataacg 1320
tacaacttta tgagcttgac agttggtgaa aacttttctg tttaaaattt tatttggcc 1380
tccccaaaag aaatgtttat ttatgagtat taggatagtt ccagcagtaa tgcctcaaaa 1440
gaaccaggag gtatagtgtt gtctaaaatg tggactcagg agccagactg cctggctgtg 1500
caactagcct tgtcacttcc tagatatgtg gcaagttaat taacttctca gtgttcttat 1560
ctgtagaatg gggataatcc taatatacat ctcagggtta tattacaaat ttaaaaagtt 1620
aattttgtaa aggacttaga atgatatctg gcaaataaaa gtgttcataa aagtaaacc 1680
tataaaaagt tttactcatt aaatacaata atctgaaacc attagtaatt taaacatttg 1740
tggttgactt ggtaatatat atgaaaataa atactgtatt tataatcttt gacctt 1796

```

```

<210> 37
<211> 83
<212> DNA
<213> Homo sapiens

```

```

<400> 37
gttgggatct gaaagaggaa tctgtggata ctgaggaaag gtagccagaa aggttcaaag 60
taacgccaag aaaaaatggt gtc 83

```

```

<210> 38
<211> 773
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (295)..(592)
<223> a, c, g or t

```

```

<400> 38
ggacaacaac caagggatth ggcccaagaa gaagaaatat aggcaagagg aaaaaaaaaa 60
aaaagagaga gagttataga atagagtaac agatttggaa atgcatcaat agttgaaacc 120
tgagagagcag ataaaattac ccaagtagag aatgtagagt aaaaagaaag gaaaggatg 180
gacagaaccc tgacaaaaca ccaggattac agttgggatc tgaaagagga atctgtggat 240
actgaggaaa gtagccaga aaggttcaaa gtaacgccaa gaaaaaatgg tgtcnnnnnn 300
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 480
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 540
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntggtgtca 600
taaaaccaag gagccacata aagttttaag aaggaaaaaa tgtccaacca tgtcatatgc 660
ttccaaaagg ttaaataaga tcagaagtgg aaattattat ttgaacttaa caacatagaa 720
tccttaagga cagttgtgga atttcactgg aatgcgagtg acaattgaca ttt 773

```

<210> 39
 <211> 326
 <212> DNA
 <213> Homo sapiens

<400> 39
 gaagtgaatt tacagaatct gagcatggat tagttgtata acaggggtgg tgggtcttga 60
 gggcaggtag caaagcaaag aacgacttga aggtttgaaa ttgaaattct gaatggacct 120
 ggatagcatt taatgtgata ggagaaacta tgaatgaaat atgaatatct ttgttctaca 180
 gggagttgag tgggggggat gaagatagtt aattttgaat atcataaacc tgaagcactt 240
 ctttaattatt cagaaaaatg tgcaaataat gcttaattga ttttgtattt aaatgagtta 300
 aagggacagt ggataaacia acctca 326

<210> 40
 <211> 393
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (227)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (240)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (244)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (317)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (330)
 <223> a, c, g or t

<400> 40
 cactagctca tgtagtcttc cccacaacca ggtgagacag gtgctattgt tatccacact 60
 ttacaagaag gaaacagaag tctagggaag taggtaatta acattacca caatccgtgg 120

```
gcaggaccgg gatttgaatt ggcaatgtgg ctccagtgcc tgggtgctcc acattgggag 180
atggtcccat caggaggtcg tctcttgaca tctccaacaa gccatcnctt tgccatgttn 240
ctancattcc aggtagcctg agtgccccc antgaccaag gaaaagctta cccttagagg 300
gtctttactc ccaatgnccc ccaccttctn atcctctact ttttggtgtt taaaattcag 360
ctgacctgtt agttgcnact ggggaaggctc tga 393
```

```
<210> 41
<211> 477
<212> DNA
<213> Homo sapiens
```

```
<400> 41
cactagctca tgtagtcctc cccacaacca ggtgagacag gtgctattgt tatccacact 60
ttacaagaag gaaacagaag tctagggag taggtaatta acattacca caatccgtgg 120
gcaggaccgg gatttgaatt ggcaatgtgg ctccagtgcc tgggtgctcc acattgggag 180
atggtcccat caggaggtcg tctcttgaca tctccaacaa gccatcnctt tgccatgttn 240
ctaccattcc aggtagcctg agtgccccc agtgaccaag gaaaagctta cccttagagg 300
gtctttactc ccaatgcccc ccaccttccc atcctctacc ttttggtgtt taaaattca 360
gttgacctgt tagttgccac ctgggaagggt ctgaccactt cattctttat gcctctcata 420
cctcagagag ctgccagggc atctctaata cttcatattt ctcaaacagt agttctc 477
```

```
<210> 42
<211> 515
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> unsure
<222> (326)..(386)
<223> a, c, g or t
```

```
<400> 42
aattcatctc ttagctatag ttagtctttc actcaggagc cctttaattc aagttgtctt 60
tttaattatt cagtaaattc ttatagtctt tttcatattc gtcttgcattg tttctcattg 120
aattcctgtt tttcttaata ttatgcataa cacgggtattt ttttaattgca tattgtcatt 180
atagaaacag ctgttaattg cttaacattt attttggagc tggacatctt aaatattcat 240
ttcttagttc aaataatttc caactgattc atataggttc tatattatct ataaataatg 300
ctaattctca tcgccagcaa atttannnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnnaata gccagtagcc ttgtaagtag tctagatctt 420
aatgagaaca tctctgtata ttttaccact aagtatgaat tggctagtgg ttgtgcttta 480
ttctactttt acactgagtg ttttaaaaca aatca 515
```

```
<210> 43
<211> 530
<212> DNA
```

<213> Homo sapiens

<220>

<221> unsure

<222> (326)..(386)

<223> a, c, g or t

<400> 43

```
aattcatctc ttagctatag ttagtctttc actcaggagc cctttaattc aagttgtctt 60
tttaattatt cagtaaattc ttatagtctt ttcatattc gtcctgcatg tttctcattg 120
aattcctggt tttcttaata ttatgcataa cacgggtattt ttttaattgca tattgtcatt 180
atagaaacag ctgttaattg cttaacattt attttggagc tggacatctt aaatattcat 240
ttcttaggtc aaataatttc caactgattc atatagggtc tatattatct ataaataatg 300
ctaattctca tcgccagcaa atttannnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 360
nnnnnnnnnn nnnnnnnnnn nnnnnnaata gccagtagcc ttgtttgtgt ctgatcttaa 420
tgagaacatc tctgtttatt ttaccactaa gtatgaattg gctagtgggt gtgctttatt 480
ctacttttac actgagtgtt tttaaaacaa atcacttgag ctgctccaaa 530
```

<210> 44

<211> 446

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (425)

<223> a, c, g or t

<400> 44

```
gtgggtgggaa ggcaagagaa ttctgtgaaa tggactcagt gttccctgtg aaataggagg 60
cagtgttgta agccaagagt gagcaaagag gtgggagaat cagagggttg aggaagccag 120
ctcaagaaga aagtgtgtag cagagctgat gagatgaaag tggcatgctt gctgggcagt 180
gttttagagcc catctgagaa tagttataat aaatacatgg tgaaattgat ctgccctgtt 240
gtagcacttt ctcaataaaa ctgagcagct catgccctat ctgagagcaa gaggagagtt 300
agattcattg agttggattt ttgccagatg agtgtgataa aaagattgcc cagagtttag 360
agttctgaaa aaagtgttat ggagtgggtg acatgagtct aaagtttgaa aaggatggga 420
atgangaaaa gaaactagct gataga 446
```

<210> 45

<211> 906

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (707)..(812)

<223> a, c, g or t

<400> 45

```
cagctcttct gtgtcaaaaa caaacacccct cctcccagcg ctgctcctgg ccggctgccc 60
cgccctctgc caggcggttc tcagaggaca agacctaatg agctggctgc tgccagcctg 120
gtcctcacag ttcacagta ggattocaga caggcatcag gctcagggac agcgagaga 180
cagctgcctt ctctctttc ccggaggcac ctgagacctg agcgacccga gggggccggt 240
gcatgggctg ctcccagtga gcgtgaagtt cacgcccaga agtacaccog ccaccagctg 300
cagcagcaca ggttcgtcca gcgcaccacg agaggctggg gctctctggg agtggaggag 360
cagggtgggga tgagcctgga cttgcacgca gagctctggg ctccattaag cccccgccc 420
gtcctagctg tgtcgtctgg gcacgccagt tctccctgag ctgctctcct cctggcagaa 480
gggggggtcat aacagcacca acatgcggga ttgcggtgag gtctaaacag tcaggcacag 540
gaagctgcac agagaagatg catgggcaac agcgcccatg gagaatccat gcagccccct 600
aagaggggca gagagcctcc aagcaaaagt cattctatct caacactcac tcccctgaag 660
actattcggt cttgggaaat aggataccca atattgaatg tttgtgnnnn nnnnnnnnnn 720
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 780
nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nntaccacc acaggattac aaggagaaaa 840
agaggaaagg gatctccccg cctctctctt ttctccccct ctcccaacca gggcagaaga 900
agaaaaa 906
```

<210> 46

<211> 289

<212> DNA

<213> Homo sapiens

<400> 46

```
aaacacagtc cttccatgag ttctgcaaac cttgggttgg aaaagaggct ctagtttgcc 60
ttaggctacc tggactgagc aatataaggc atgggagagg tggtttatct gtttaagggtg 120
ccatgtcttg tttatactca ctgatgagaa gaaaaaaact taaatgaaga cttcagactg 180
aatttttttt cttgtatta aaaacttaga gtgagagtta agcttagatt tagtttttct 240
aaaaccttaa aaactagaaa ccatttatta aagctagatt ttttttttc 289
```

<210> 47

<211> 299

<212> DNA

<213> Homo sapiens

<400> 47

```
gggctgagct aaacacagtc cttccatgag ttctgcaaac cttgggttgg aaaagaggct 60
ctagtttgcc ttaggctacc tggactgagc aatataaggc atgggagagg tggtttatct 120
gtttaagggtg ccatgtcttg tttatactca ctgatgagaa gaaaaaaact taaatgaaga 180
cttcagactg aatttttttt cttgtatta aaaacttaga gtgagagtta agcttagatt 240
tagtttttct aaaaccttaa aaactagaaa ccatttatta aagctagatt ttttttttc 299
```

<210> 48

<211> 197
 <212> DNA
 <213> Homo sapiens

<400> 48
 acaggcgtga gcaccatgcc tggccccaat gggatttggt atggaacttc ataaatgtat 60
 tgtaaaatcg tcatagggag aaacaaagaa ccaagaagag ccaaaatact cttgaaaaag 120
 aggacaaggt gagggagttg ccctaatttg gaagctatta agatttatta taaagctata 180
 ataattagac atgatac 197

<210> 49
 <211> 453
 <212> DNA
 <213> Homo sapiens

<400> 49
 ttacaggcgt gagcaccgtg cccagcctca agtatactct tacaacacaa ttaaattcaa 60
 tcttcagtaa tcccaaaatt tcattacccc tgtgaaaatg tcctggatta gcagtctcct 120
 actttaagtg ttttatgaaa gaatacagtt tatttttagta taaataatat agccagactc 180
 tatgaaacaa aagggttgaat aatatittacc tatagctccc atttagaagt accaaagtta 240
 tgaagcacat tcattggcta ctgtcatatt tattaggatt tatgttttat cagattataa 300
 gcactcttta gtgaaaaatg tttttttcct ctttgctcag aaaattgtcc aacactcctg 360
 gtccagtcaa gagtgaagca aaaaactcct caatttgaat ggctttcatt tgggtccatt 420
 tatttggtta cagagaagtt ttgataaaat acc 453

<210> 50
 <211> 1012
 <212> DNA
 <213> Homo sapiens

<400> 50
 gtaacattct atttataatt atgtccttgt tttattaatt ctctatgga tggatattta 60
 gggttatatcc atttttttgc tagtcttgt atgtccctt gaattttatt gtacatattt 120
 tcttggtgat ttgagagatt ttctggggtg tacatatcta agatctgatg gatgctggga 180
 tatgtgcttt gtcaactgag gttctcactc ccctggaagt gtgtgagatc agaatgccc 240
 tgccctagcc cttacttata ttatgtatca gcatgattga tttgtaatag actaataagg 300
 gtaaatagct gagtgtatgc cttctatact gtaattttac tttgttggtc gtctgtttgt 360
 ttaattgggg acccatcttt tttcagattg ttaattttgc taaagatcct ctttgttctc 420
 agagttaatt atcccttaag gaattccatg tgtttatttt tctctgttcc aaagttacga 480
 ttctgtgcta aagtcataat tatgaaatca tcagtttggt catactttaa atctatgctt 540
 ctcccttgtg gttgacagtc cccaaggcag gcatccatga agtcaaaagg actgaccaa 600
 gtgtaatctg ccctttttac tgggttgga tttgtgctaa tacactgcaa aagcagtggt 660
 ggataaaactg acagcacctt gcaaagcagc aagggtggtg caccaatttg tcattattta 720
 tgttaaaatt aatgggttca tttgtatttt taaatgaata aacattttaa caatttctta 780
 gttttgattt ctaatagagt aactatagat cagtagatgc caactatagt gtcttccttt 840
 aagagcgtga aggggcctga gactggaaaag ctggagaagc accgctttta agcacatggt 900

agacgtatga atagacaaat actttattct tgttgaacat ggtcattggg aaggaaaact 960
gaggtatgtc attctattac aagatgaatc aggctgatct gcaagttgta ta 1012

<210> 51
<211> 268
<212> DNA
<213> Homo sapiens

<400> 51
gtggaaatta atgttagaat ttgtattatt tagatgaagg gaatgtagcg atgagttttg 60
taaaggaact ggatcatcga aggaagggga aaagatgaaa ataaaacaaa ataagaatat 120
aaaatagcca gagagattat acgatcatgt attaacctct cctgagaata aaatattata 180
ttgttatgtt tgaggctcat ttgactcag ttcttagtta agagttggct aacaaaaagt 240
atatcattgt aatgaatgct ttcactgt 268

<210> 52
<211> 581
<212> DNA
<213> Homo sapiens

<400> 52
gtggaaatta atgttagaat ttgtattatt tagatgaagg gaatgtagcg atgagttttg 60
taaaggaact ggatcatcga aggaagggga aaagatgaaa ataaaacaaa ataagaatat 120
aaaatagcca gagagattat acgatcatgt attaacctct cctgagaata aaatattata 180
ttgttatgtt tgaggctcat ttgactcag ttcttagtta agagttggct aacaaaaagt 240
atatcattgt aatgaatgct ttcactgttc ttgttcttgt tgttaaacct atattctccc 300
caggctgtgt aatccacttt tgttactctt tgctggagtc actagatgat acacaaagga 360
aattttgttg cactaactca gtttcgcaca tttttggcta tgaaatgtgg acagaaatta 420
ttgaaactaa tatctaaatg tagctattct ataacttcta tctagccatg ttaattttgt 480
tctctattaa gacggacaat caaagaggaa ataaacagaa catatttctc ctaatgaatt 540
caggctgggg ctaaaagtcc aatatttata gatttcttct t 581

<210> 53
<211> 597
<212> DNA
<213> Homo sapiens

<400> 53
actgcattctg ctgcctttac acgggactgc aaacctgttt ttttcaacct tctgttttat 60
gggtgtgcac acccataaat ctccgtgtgc tgggttaagg gaacatacaa gcagctcttc 120
agcattaaga atgtgatggg agagattcag gtagatttga actgccatca tcaatcaaga 180
ccaaggagaa ggctgctttc caggatgtac acatggcctc tgtttgctgt tgctgttttg 240
cttcttttaa gaggtgaacc aatatatgta tgtctgtttc tactgtcact tgcagctcaa 300
cagaaccttg taatatacat gaacaagttt ctggaagtta agagagatga gaagttcacc 360
aagtcaccaa cctgactggt accatgagga attcctttac cggagaacat gctgtcacia 420

```

taggttaa atagtgtata cagggtccaaa gaatattcat gttcaatctt agttaaaaat 480
aaatatat agttaggttaa attaggtata gcttttattt cccacattat aattacctgt 540
atttttata cttcatgtaa catcaccaaaa aatttttagta ttagataaat caaaaaa 597

```

```

<210> 54
<211> 304
<212> DNA
<213> Homo sapiens

```

```

<400> 54
gctcgagatc cctcttgtca tccaaagaga acaccaaact ggtgttagct atattttttaa 60
ataggacaaa aagtccctgc cagactgtgg agtctctcca cctggagaaa gcattcaatc 120
tctgttatgt tcatgccttt cagtaccatt cctttcgtat ttttccagtt gacatgacct 180
ttaagggtcc tccaaactaa ggttctaatt ttttttttta acttgcagtc ttactcccaa 240
caagaaatgt gatataatag agctaacagt tctaagaagt ttaagaaat agtatgcaat 300
ccca 304

```

```

<210> 55
<211> 2631
<212> DNA
<213> Homo sapiens

```

```

<400> 55
caggtaacac gtgcacaaat tagatattca ttctaaaact tctaatttac agataagacc 60
gagaagaggc tagtaagtca ggtatcttaa ataattggatt cgttgaaact ggctcttcag 120
aagagggtgat tgcagaagtg caaagctggc tctgagggtta aatctttatg agaaaggaat 180
acctttactt tgagggtatta aatggctcag ctctgggata tgaaactttt taagtatctt 240
taagcaatca gtgttcaaat caaagagtga gatgcgtaat ctgacctgtt aaaatcacia 300
aatcagggtg ggcattagat aatgcctttc agtttaaatca ctgctgcctt ggattctgga 360
aatgtgtgct atataaaaaca cataatgtat gaatagaagt atatggtaac tgacagactt 420
ttgttataca gtgtgataaa gtgaatagaa cattagaata ctaaccgcat gattttgact 480
ttggtctcag tttgtcagtt ggggccttag tttctttaca ttaaaggaga agactaaact 540
aagtttatct tttcaaaaaga ccctttacta ggtgtccttg tctacatttc caaaatattg 600
gacttgtcca tgaccaaaaca ggtgggaatg aaggccatta ttttgattat ttttctcttt 660
taagaatttc cagaaatatg ttctttgtag ataaagaatt acatatttgt agagttctaa 720
gcgttcttaa aattcatttt gcccaactcc ttcttttctt aaaggagaca acagaagctg 780
cagaaatagc ctctctgtta ttattacata gcagcagctc cctgtcttta aatatttgaa 840
ctaaacacat tttacatttt aatgaattta atttacagtg tgatgtccag tattgggatt 900
gcatactatt tcttaaaaact tcttagaact gttagctcta atatatcaaa tttcttggtg 960
ggagtaagac tgcaaggttaa aaaaaaaaaa tagaacctta gtttgaggga accttaaagg 1020
tcatgtcaac tgaaaaaata cgaaaggaat ggtactgaaa ggcattgaaca taacagagat 1080
tgaatgcttt ctccagggtg agagactcca cagtctggca gggacttttt gtctatttta 1140
aaaatatagc taacaccagt ttggtgttct ctttgatga caagagggat ctgtcggttt 1200
aatgtcttct ctgcagccc cctcaccgca gcccctcac acctgtgagg cttctttgac 1260
gttgagcgtg cacaaccgcg tgccagtcgg cgggttccca gtgcccgcgc agccagcttg 1320
caggggaggt gtgcgcgggt gctacagcct gttgatccca tttcctcctg ctctagtcgc 1380

```

```

ggctagggag tggctctgcc aggaacttcca aggctttttg tctcgggtac tgggtgttcgc 1440
atggctcgag tgtattgttt tcttccaggc aatctcgggt agcgcttcag cttagacact 1500
tcttgtgcgt tctgtcgtct tgggctgcgt gtagtctctt gtttctgcgc tttctccacg 1560
cccttcccag tttcctgtta gccgaagggg atcgctcttt ctgaacgaaa agttctcaga 1620
gcggagctga acctcccga aaatgctctt ctcttccgtg tgcgccgat gggggtgggg 1680
gtgggccaga aactgaacgc cgccgtcagg agagctgagg ggacccgacg gccctggcgg 1740
aggcgggaga ggtacgggtc tcggagtggg gctgggggtg gggaaaccga cgaggggcag 1800
ccccgactg tcttggtggc agaggggact tttattcagc tggaaaccgc cggcgaggcc 1860
caagtgtctc tggagagatt cggggttcag gaggtggcgg gtgcacccaa ggggtgctggg 1920
aggaagctcc aggttcccat tcttcccag ggatcggcgt tgccctgct cgcgggggta 1980
gtctagggca acggaagatg gcggcggcgg ccgggcacgg ggttccgggc tccgctcggg 2040
cagagcccac ccgctgacca actccgccgc ccccgccggg cgggtgctgtg tccccgcagg 2100
agtcggagag gatggcaggg gccggaggcc agcaccacc tccgggcgcc gctggaggag 2160
cggccgccgg agccggcgcc gcggtcacct ccgcgcgtgc ctcggcgggg ccgggagagg 2220
attcgtctga cagcgaagcg gagcaagagg gaccccagaa actgatccgc aaagtgtcta 2280
cctcggggca gatccggacc aagggtttca tcatgttggc caggctggtc acttctgagc 2340
tcaagtgatc cgcccacctg gcgctcccaa agtgctggga ttacaggtgt gagccaccgc 2400
gcccggccga aaacaataca attgtgaagc agttctacac catgttcgta gcagcgttat 2460
tcataggagc caaaaagtgg aagcaacca actgttact gatggatgaa tggataaaca 2520
aaatgtggca cacacatata ataatgggac attattcagc cttgaactgg agggaaattc 2580
tgacagggtc ctgtgagggt aaaggtcgca ttttcagggt tcagggaatc t 2631

```

```

<210> 56
<211> 401
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (279)
<223> a, c, g or t

```

```

<400> 56
ccttaaaaaa atttacagaa cacaaaggaa aacataaaca caaagacatg gaaaattttg 60
tcaactcctt aatggaattc tgtgatcaaa agcaggcca gattctaatac aaaatcagg 120
aaattttaat cacaatcaga agtacttgta acatttcagt tgcctaact ccaatgagat 180
aacaaagcct ccaaggctac agctgaaact ctgaaaggcc ctgtgctttc tactttacat 240
ttagcgtcta atatttccta ggacagtagt tcccaaagna ggctgtacat agaatctcct 300
ggagagcttt ttaaatgcta atgccaataa ccatatctcc ataaaattta ccctagaatt 360
tccctgggat ggggtgcctg gccatccagt attttttaat g 401

```

```

<210> 57
<211> 859
<212> DNA
<213> Homo sapiens

```

<400> 57
gcacgagtta gctttgcatt atctaaccga tttattttaa atctgccagg aaatcctcta 60
acttttccttc ctttttgttt cagtaagtat caggcagctt caccatacct gagtcctttt 120
gtcttgaagc tgccacagaa aaatccttaca gcaatcattg ctgattagaa actgtttcag 180
acaatcagca tgggtgttat ttaccaaatt ccccccagag tcctaggcct cttctccaga 240
aatatctgat gatgaagtga ggggagggca acggtgctac aaaacacgga acagaggtaa 300
agagaaggca ctactttctt gccatacttg taaatgattg ctttgttcaa acataaataa 360
tcttaagtcc aacaccaaatt acctgttact cctacatcaa tctcattagt ggtttaagac 420
acagtactag aattttcatt ttttaaaatc ccttgcccct taaaaaaatt tacagaacac 480
aaagggaaaac ataaacacaa agacatggaa aattttgtca actccttaat ggaattctgt 540
gatcaaaaag caggccagat tctaatacaa atcaggtaaa ttttaatcac aatcagaagt 600
acttgtaaca tttcagttgt cctaactcca atgagataac aaagcctcca aggctacagc 660
tgaaactctg aaaggccctg tgctttctac tttacattta gcgtctaata tttcctagga 720
cagtagttcc caaagtaggc tgtacattag aatctcctgg agagcttttt aaatgctaata 780
gccataaacc atatctccat aaaatttacc ctagaatttc cctgggatgg ggtgcctggc 840
catccagtat tttttaatg 859

<210> 58
<211> 343
<212> DNA
<213> Homo sapiens

<400> 58
gctcgagtgt aaacattcac tgatcttttt tcctttattg aagccacaat ttaaaaaaaaa 60
aaaatactat aaatttcagt ttaaattgag aagccagata tctttcaaaa tgtatccttt 120
atgtggtaaa atagagaata acattgtttt tagttaagta aaactaaagt actgtttcta 180
actaggtaat ctggccttcc aaacacagga gtttgaacag agagttctaa aaattagagt 240
gtctgttctc tgtcagaacc ttctgggaag agtgtgtcaa atgagcacta ctcaggagaa 300
atctctaagg ttttaactta gtttatactt taaactgaga ttt 343

<210> 59
<211> 635
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (33)
<223> a, c, g or t

<220>
<221> unsure
<222> (111)
<223> a, c, g or t

<400> 59

```

tcttaatgtg atttaaaata cgggggatga agngcattca gtatctgcct ggtcacccaaa 60
gtccaatgcg acatcccctc tctatagaga tgtattctag caaaagactt nttcatccac 120
catctggccc cagactaaga acacatctca ctgaatgaca cataaaccag tgggatgcac 180
caaatttgct taaccatgag cacatcatct ttcataaca aaagctgaat atgaccctaa 240
ttttatattc tgtaaactct gttgtggaat ttattaaaac aactgtcttc tgggtagtct 300
gtaaacattc actgatcttt tttcctttat tgaagccaca atttaaaaaa aaaaaatact 360
ataaatttca gtttaaattg agaagccaga tatctttcaa aatgtatcct ttatgtggta 420
aaatagagaa taacattggt tttagttaag taaaactaaa gtactgtttc taactaggta 480
atctggcctt ccaaacacag gagtttgaac agagagttct aaaaattaga gtgtctgttc 540
tctgtcagaa ccttctggga agagtgtgtc aaatgagcac tactcaggag aaatttctaa 600
ggttttaact tagtttatac tttaaactga gattt                                     635

```

```

<210> 60
<211> 474
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (335)
<223> a, c, g or t

```

```

<400> 60
gggaggcaag aactattttc attttatgtc ttatgaaact acagtgcata gtgacgaagt 60
gatttgccta aagtcacaaa gcaaaaacta ctggaaccat gtccaagct aaagacttct 120
cccaattata gcgttttttc ctcccatagc ctgttttcat taccttcttg tttatccatt 180
ggctttcatg agacatgttt gctgccagtt gtgaataggt tagttcccca gaggacccat 240
gagtaccaca caaactgcta gctgaatctt gtgagaattc taggaggtag ggctataaccg 300
gccctgaaga aatttcttga tgactgctca gtggntttat ggaatgtagc agagtattct 360
ctggatactt tagagttact cccttttaag agcatgatat tgacaattct ttttactagt 420
ggaacagtga catctgaaca gcgtgcctga cctttgcaag gttaagcaga atgc          474

```

```

<210> 61
<211> 526
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (415)
<223> a, c, g or t

```

```

<220>
<221> unsure
<222> (417)
<223> a, c, g or t

```

<220>
 <221> unsure
 <222> (475)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (482)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (521)
 <223> a, c, g or t

<400> 61
 atttttaaat ataattaaat attttattcc tttattatag gaagagcttt tacgagttct 60
 actgaacaac aacaaaaaat ccagtagaaa tgttggacaa agatgtgat tatacaaaac 120
 tagaaatgca agtaaacata aaaagctcaa acttacttaa aaacttaaaa tgaaatattc 180
 gtaataaaaa ctattactga gggcctataa aattttgggt taaaatgaaa tggtaataact 240
 taataaatgt tagggcacaa tgatgctatc tttcttacat ctttcttttt agaagtaact 300
 tatttcaatg tttctgaaa gcaatttgat aatttttata ttactacaaa aatatggtag 360
 ctaccctttg gctcaacaat ttttttagga accacaaaaa tgcagtcaaa gatgnanata 420
 aaagactgaa agcaattctt catagccttg tttatatgaa gggaaactga aaacngccta 480
 antatttaac aataggtgaa atgattagaa atgtggtata ntcaga 526

<210> 62
 <211> 164
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (143)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (148)
 <223> a, c, g or t

<400> 62
 gacatcctat acaaaaaaaaa atcgatttgt gctttattta cataaaaaata aaactataact 60
 tttgataacg tcctgggcac ttccctctgc ttactcccc tcaattaaaa aatgcctaact 120
 ttaaattaaa agaaccggc cantgcantg ttcatgccta taat 164

<210> 63
 <211> 257
 <212> DNA
 <213> Homo sapiens

<400> 63
 agcatggttg aagctaaggt gaccttgatc aagttgcaa aacctgtttc aggtttgctt 60
 aagtcaccag aacgctttga ttgagacatc ctatacaaaa aaaaaatcga tttgtgcttt 120
 atttacataa aaataaaaact atacttttga taacgtcctg ggcaactccc tctgcttact 180
 cccctcaat taaaaaatgc ctaattttaa ttaaagaac ccggccaggt gcagtgtttc 240
 atgcctataa tcccagc 257

<210> 64
 <211> 572
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (179)..(265)
 <223> a, c, g or t

<400> 64
 cacactttct cagctgctct tggttttgca aaggaagata ctgacatgtt cagattaaga 60
 aatcgtaaag cttctgaact actaaggaag ggaaaagagg ggcccagggc ccacatgtgt 120
 gccaggtgct gatctgaggg ttttttggta ctcactctcat ttaatggtca cactgttcnn 180
 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
 nnnnnnnnnn nnnnnnnnnn nnnntcctg gtgttcaggc ctcatgcctt ctgttcttaa 300
 ctccatatcc tgtgtccctg ggaaaggaag gggccatagt ctggagtggg ttccaggaga 360
 aaagagccag agtaatctct gctcttcatt tcttaacaag aatagaagac agaataaagg 420
 gcacagggat aaaggattgt taaccagact ggcaaatcag tagactaatt aaaaatcaaa 480
 caccttaaaa cactgtcgct ggggttaattg taaaccaaca atgaaacgtt aaatttgccc 540
 agccatgagt ttgaatgatt aactgagtga gt 572

<210> 65
 <211> 277
 <212> DNA
 <213> Homo sapiens

<400> 65
 gctggctttc ggtatttata agtgcctggg aatgttctag gctctggttc aagcctgtag 60
 ggaaaaacct gcagctggct gagccacaga ggtcagggca gtctgtgatt ttcagtcagg 120
 acacagaaaag caagcaggag gaactggagg accctgcggc tgctgtaac aagaaataaa 180
 aatggcacag atattactaa ttaagcacta atcccagagg cggcgagctt gtggccttcc 240
 tgttctcttc ttaaaagcaa gcaagggccg ggtgtgg 277

<210> 66
 <211> 452
 <212> DNA
 <213> Homo sapiens

<400> 66
 cccaggggat gatcccaaag cattttccca ggggtccttc gttgcagggt gggcttcagt 60
 gtccttgcaa tgggcatcag agaaaaggcg tgttctacag ccagggtgtgt cctcggcaag 120
 ggggtcaggg tatggagttt atgtgagggt ttaaggattt tggctcaggg cctgggctgg 180
 ctttcggtat ttatcagtgc ctgggaatgt tctaggctct ggttcaagcc tgtagggaaa 240
 aacctgcagc tggctgagcc acagagggtca gggcagtctg tgattttcag tcaggacaca 300
 gaaagcaagc aggaggaact ggaggaccct gcggctgcct gtaacaagaa ataaaaatgg 360
 cacagatatt actaattaag cactaatccc agaggcggcg agcttgtggc cttcctgttc 420
 tcctcttaaa agcaagcaag ggccgggtgt gg 452

<210> 67
 <211> 283
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (274)
 <223> a, c, g or t

<400> 67
 ggaataattc agcactttaa tgtgttattt aattctcaca gaagcccat tttacataaa 60
 aatgaaattg aatggattat gagaatattg attattgatt ggtaagtagt aacattattt 120
 tttcaagaac agcaacctaa aatactcata cagttagctc taacaatgtt tacaagtctt 180
 aaaactattc ctgcaaattg ttgtattaca taaatgttat tgactcctca accatggttt 240
 tttaaagtaa tatttgtaa ttataaagta aganaatata agc 283

<210> 68
 <211> 432
 <212> DNA
 <213> Homo sapiens

<400> 68
 ggaataattc agcactttaa tgtgttattt aattctcaca gaagcccat tttacataaa 60
 aatgaaattg aatggattat gagaatattg attattgatt ggtaagtagt aacattattt 120
 tttcaagaac agcaacctaa aatactcata cagttagctc taacaatgtt tacaagtctt 180
 aaaactattc ctgcaaattg ttgtattaca taaatgttat tgactcctca accatggttt 240
 tttaaagtaa tatttgtaa ttataaagta agaaaatata agccgggcat gatggcacat 300
 gcctgtagtc ccatctactg gggaggctga gtcaggagga ttgtttgagc ctggagtttg 360

aggctacagt gagctatgat cacattattg cacgtttagcc tgggtaacac aatgagaccc 420
tgtctcttta ac 432

<210> 69
<211> 516
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (425)
<223> a, c, g or t

<220>
<221> unsure
<222> (475)
<223> a, c, g or t

<400> 69
ctttttcttta attaaaaatc tttaaagcctt ttcccttggc tgtcctctga agacagtgtg 60
aatcttcttc aggctgctt ttcctaattt tatacattat tgctctaact tatttttcta 120
cttattattt tatttttctat ttaataaaat acaaactaca ttgcttgaat tgtgttgtat 180
ctgcaaaaaca atatgggatac aaatacggat ttttttagcta ttttcatttg ttcttttcta 240
cattatactt cttgaagctt ctgttttatt cagtttgtgt agaggtgaat gccctactga 300
agaatctgtt tttcaaagat tatccaagaa aatattttt gagagaattc tagtggattt 360
aattgatgaa gacatggtaa gagaaactgt tgggaagatac ttgaaagaaa gtcattaagt 420
gaganaaaaa tggagaacta aaatgtggag actcacgaag agcagagtga gcttnaagaa 480
taaagactgg aaacctgtgt ccttaatgca ttact 516

<210> 70
<211> 52
<212> DNA
<213> Homo sapiens

<400> 70
cattgggtta atatacctga gcacagtta tgaacctttg tcctcttcta tt 52

<210> 71
<211> 422
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (311)

<223> a, c, g or t

<220>

<221> unsure

<222> (386)

<223> a, c, g or t

<400> 71

```
ggggaagata cttgagcaca tttatagacc catgataagg agctataaaa ataatgaggt 60
taagatgctg acaactatTT atgcaaatac cagagaatag ttagctttga acagaagggc 120
acccatctct tctctaatat tggaaacagg tggaaaaaacc acctgggctc tcagacagat 180
gtctttgttt ttaaataatTT cagaaaatga ggtagggagg gactgaccaa gggcagcgag 240
ttttatgaat gctgttcctg gtctcagcag cgctttcctc ttccctcact gacaactgca 300
gggcccagg ngggaggaag aacagtgtgt gcctgctggg ctcagcatct gctccagtga 360
gcaacacggg ggtgactggg ggtctnctga atgttaaata taaaggaagt tccttttccc 420
tc 422
```

<210> 72

<211> 521

<212> DNA

<213> Homo sapiens

<400> 72

```
ggggaagata cttgagcaca tttatagacc catgataagg agctataaaa ataatgaggt 60
taagatgctg acaactatTT atgcaaatac cagagaatag ttagctttga acagaagggc 120
acccatctct tctctaatat tggaaacagg tggaaaaaacc acctgggctc tcagacagat 180
gtctttgttt ttaaataatTT cagaaaatga ggtagggagg gactgaccaa gggcagcgag 240
ttttatgaat gctgttcctg gtctcagcag cgctttcctc ttccctcact gacaactgca 300
gggcccagg ggggaggaag aacagtgtgt gcctgctggg ctcagcatct gctccagtga 360
gcaacacggg ggtgactggg ggtctgctga atgttaaata taaaggaagt tccttttccc 420
tcttagagaa gctcatagcc aaactgaaaa gcggaggaga gataaaatga ataacctgat 480
tggaagaact gtctgcaatg atccctcagt gcaaccccat g 521
```

<210> 73

<211> 140

<212> DNA

<213> Homo sapiens

<400> 73

```
ggatatttgg ttactttgca gcctagaaat tatttcagag aatcctaatt gctgacattg 60
catatttgtt cagtttggag tctggttgtt agattatcaa agaaaagtcc tgctgatatg 120
taagcatcaa atagaaactt 140
```

<210> 74

<211> 101

<212> DNA
<213> Homo sapiens

<400> 74
aagctattaa aggctgtccg ttaaggatct ggcttcaaac tgcctttcca ccttcattct 60
actatttcct ctattaaaat atgctttgtg ttttaagcaa a 101

<210> 75
<211> 422
<212> DNA
<213> Homo sapiens

<400> 75
aagctattaa aggctgtccg ttaaggatct ggcttcaaac tgcctttcca ccttcattct 60
actatttcct ctattaaaat atgctttgtg ttttaagcaa attgttaatt tttttttttt 120
tttaagatgg agtctcgctc ttgttaccca agctggagtg cagtggcccg atctcagctc 180
actgcaacct ctgcctcctg gggtcaagca cttctcctgc ctcagcctcc cgagtagcta 240
ggactaagtc atgtgccact atgccagct aattttttaa atttttttgt agagatgggg 300
tctcactgtg ttaccagggc tgggtctcgca gtcttggcct gaagtgattc tctcaccttg 360
gcccccaaaa gtgctggcat tataggcatg agccatggtg cctgtcccta ttcttaattg 420
ca 422

<210> 76
<211> 253
<212> DNA
<213> Homo sapiens

<400> 76
cacacctcat ctcccttgaca ggaagacatc ttttttcctg tggagcctgt ggaatttatc 60
actttctatt tctcttgggt gggaaaatct tctcggcatc tagctaggca tggacagata 120
ctgttgggtg atgatgccac tgaagagccg tccttagtgt cacgtggtgc tggctctgagg 180
tcacggtcca ttggtgtcca ttggcttctc aaggccaata ccagtcctcg gggctaattt 240
ctactactga gag 253

<210> 77
<211> 493
<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (199)
<223> a, c, g or t

<220>

<221> unsure
<222> (202)
<223> a, c, g or t

<220>
<221> unsure
<222> (208)
<223> a, c, g or t

<220>
<221> unsure
<222> (211)
<223> a, c, g or t

<400> 77
tcctgctggt caggggaacat tctgcggcag ttaaacagca gccttcccca ttaagtccctg 60
gcaacacagg aaaggtagat gcttttcagt aacctttccc tgtaggactc tttcagagcc 120
aagaacataa ggtgtgacct atctggacta aaaaaataa agcagaattg tatcaattgc 180
tactcctttt tattcccanc tngtttttct natttttttt ttttaattccc atcttgtaag 240
agaattccca gggagccttt ttgagagaaa gttcattgga tttatttttt taatttttat 300
gccattttct gtaaaagcaa actgctctag ttggatgccca ggtatacata aatgtattga 360
taatatccag tctcttgggg aactctagga gtatttgctt aagacacatc tttgggttcc 420
cttacctctt ttctaagatt tacaggagaa ggagagtctt actgtctttt ctagtcttat 480
gaaagtgata acc 493

<210> 78
<211> 652
<212> DNA
<213> Homo sapiens

<400> 78
tcctgctggt caggggaacat tctgcggcag ttaaacagca gccttcccca ttaagtccctg 60
gcaacacagg aaaggtagat gcttttcagt aacctttccc tgtaggactc tttcagagcc 120
aagaacataa ggtgtgacct atctggacta aaaaaataa agcagaattg tatcaattgc 180
tactcctttt tattcccata ttgttttctt attttttttt aattcccata ttgtaagaga 240
attcccaggg agcctttttg agagaaagtt cattggattt atttttttta tttttatgcc 300
atttcttgta aaagcaaact gctctagttg gatgccaggt atacataaat gtattgataa 360
tatccagtct cttgggggaa tctaggagta tttgcttaag acacatcttt gggttccctt 420
acactctttc taagatttac aggagaagga gagtcttact gtctttttcta gtcttatgaa 480
agtataaacc gactgggagc agtggctcac gcctgtgata ccagtacttt gggaggtcta 540
ggtggtaggc tagcttgagg ctaggagttt aagaccagcc tgggaaacat agactccctt 600
tccattttta aaaaaaaaaa aaaaactcga gactagttct ctctctctct cc 652

<210> 79
<211> 591
<212> DNA

<213> Homo sapiens

<400> 79

```
tgcatgtgga agagatatcc caggaatctg atcttgagaa cttgaacata atgttaatgt 60
acgtgctata ggcttatagg ctccatgaag caaccttctg ttagatcaag gcaaaaaaaaa 120
aggtctacca ttcttactc catttccatg cccgtaaaag ttttgtttg cactttgaaa 180
tctgcaatga atctagagca gtagcatcaa tactttccta acactggatg gatactattc 240
acagcatccc cctcctcat cgtcaccggc atcactttcc tcattaccac catccccatc 300
actagcatct gtagcacact tagtctacaa agagctttca ttcacctgac cttcttagaa 360
caagataatt atcaactttt ggtgctggac cgagtgttg gacacttcat cttgcagtga 420
ttttgtgggg gtaaatagag cagcattatt tgcacaactc ccaacaacac agtgtttgct 480
acataaggag tgcttgataa atgtggaatt gattaatgta aataaggaaa ctaaagctta 540
ggagaagtgc tgtgtttttc tcagtatcag gaagaaagga attgcagaca c 591
```

<210> 80

<211> 160

<212> DNA

<213> Homo sapiens

<400> 80

```
ggggcagaat atctgaagag atcatggctt gaaaacttac taaatttgat gaaaaatgtt 60
gatcttcaca ttcaagacgt tcagtgaact ccatatagga gaaattcaag agatccacaa 120
ttagacatat gctactcaaa ctgtcaagag acagagacaa 160
```

<210> 81

<211> 731

<212> DNA

<213> Homo sapiens

<400> 81

```
gcagacagcc cggcgaaccg cgcaatgcgc tttcttctgc ctgcagcaga gaaaaggaaa 60
gaaaactccg caggggctcc gttggcttct ccacgagtga caaccatgtt ttcccatgat 120
agacagaccg gagccctgct cctttgcgat ccgccgaggg ctgcagagag catcctcatc 180
catttgggca cccctgccc ggaagagccc gggccatccc ctttcggga cgtggatcct 240
ctaagaggtg aattttcttc ggtggattcc gatttgctcc gtctgaccag cctaggcaat 300
ccagcaatcg cggtaggtta ccaagttgcc gcttgggcac acatggcttc acgccggctc 360
cgctcacca gcaagcgcca ttcccagagg agaaaatgag aactgagtg ggactcaggg 420
attgctccag gccacacagt cagcaggagg caaagcccag attcaaatgc agattactca 480
gctccacaat ccacatcctc acaggagggt gcactccttg cccaagcgtc agacaggagc 540
aaagagaaag aaggcaacca gctggctact ttcttccctt cttggatgcc tccaacaggg 600
tgagaaggac taaacaaatg accaagtgtc atcccatttt ggacatactt aaaacacccc 660
atggaatttt tattctgact ttcttctgcc tgtgtggcat ttatgtttta ataaaagaga 720
attcaactcg t 731
```

<210> 82

<211> 666
 <212> DNA
 <213> Homo sapiens

<400> 82
 cagtgtagca ctgtaattta tttcatttct tgactaatta ttcaagccct tgataaacia 60
 tgggttatggg atgacttacg tgtagctctc aagttctaaa taatgttaag ttttagcagat 120
 aaggcagttt atcacagtgt ccgttcactc agacagcata agtatgtgtt gataaaataa 180
 tcttaaatac aagaacttta gtaaagaaat aagccacttc attaacattg taaaatagtt 240
 ttaagatata aagtatgaaa ggaattttac agtgatataca ttttctgact ttccaattag 300
 caattataaa tttttattga caatcttatt ttgaaaaccc cggagttttc aaatattctg 360
 catttatgtt gaccattttta ccaagatgat aaaacatgca ttattttctg ccattttata 420
 atttttacag gggggaacag cgaagccaga tgattttatta gttattgccg gtgaaaatac 480
 agagatcctt tgaaacattt gtctctccta gaattctcat caaacatat gcttctaaca 540
 cagcacttaa cagtcatggg gagtatgtgg gaataacaga gactcgcttc cctggccaaa 600
 accacacata gaccacaca cttgaaaaat aaggaaataa gatcatctga gtatggagat 660
 tcctca 666

<210> 83
 <211> 673
 <212> DNA
 <213> Homo sapiens

<400> 83
 cagtgtagca ctgtaattta tttcatttct tgactaatta ttcaagccct tgataaacia 60
 tgggttatggg atgacttacg tgtagctctc aagttctaaa taatgttaag ttttagcagat 120
 aaggcagttt atcacagtgt ccgttcactc agacagcata agtatgtgtt gataaaataa 180
 tcttaaatac aagaacttta gtaaagaaat aagccacttc attaacattg taaaatagtt 240
 ttaagatata aagtatgaaa ggaattttac agtgatataca ttttctgact ttccaattag 300
 caattataaa tttttattga caatcttatt ttgaaaaccc cggagttttc aaatattctg 360
 catttatgtt gaccattttta ccaagatgat aaaacatgca ttattttctc cattttataa 420
 tttttacagg ggggaacagcg aagccagatg atttattagt tattgccggt gaaaatacag 480
 agatcctttg aaacattttg ctctcctaga attctcatca aaccatatgc ttctaacaca 540
 gcacttaaca gtcatgggga gtatgtggga ataacagaga ctcgcttccc tgccaaaacc 600
 acacatagac ccacacactt gaaaaataag gaaataagat catctgagta tggagattcc 660
 tcaaaaatta aaa 673

<210> 84
 <211> 488
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (392)..(435)
 <223> a, c, g or t

<400> 84
cctgtgaaaa tgtataatgt gtaggttatc ctaaaggcat gagccaccgt gcccggccaa 60
gaaaaggaca tcttttttota atttaaacag aagcagcgaa gtcctagtgg tagccctgat 120
tagcaatatg gaaaatttcc aagtacatta ttgcttgtgt cataccttac agaaggaaaag 180
aagaatgaga gaggcataata ttagagagtt gtaactgcct attgtttaag gatagaataa 240
taaataactca tcttttagtat ttactaaaga tgaagttgct caggacttaa gtggcggcag 300
tctgttgtaa tggtaaggcg gcacatcggc tctgcagtca gatggcctct cttcttctct 360
aactggtcac cttatgcaag ctggtgcaac cnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 420
nnnnnnnnnn nnnnntgtag ggtggcaagg ttatacatat tataaggta tgcataattga 480
tgtaatct 488

<210> 85
<211> 368
<212> DNA
<213> Homo sapiens

<400> 85
ctttatatgg ttctgattta tgagaaaaca cataccaaat tttgatgacc attattaact 60
attattgtct atgctgcttt ttcacacctg agaaacaacc taaaaatctt ggactgtatt 120
tttttaaatg ctaaagtagg attcagaaaa cagatTTTTg tcatattgtc tttgaaacct 180
cattataaat catttagctt ttgctctact tactttcagg tttgccataa agagcacaag 240
agataatata tatgaaagtg atttatactt ttgttaagag ttttggtcag tgtctaataga 300
tattacagcc ttttgctga ctcagcttgg caatctagtc tgtaacttc actctaagta 360
ataatatt 368

<210> 86
<211> 133
<212> DNA
<213> Homo sapiens

<400> 86
gttacagcat tatttaacag tgaaatggtg ttctttatat taaattgtgt cttcctgtct 60
ctatagtgca tatacataga ccttgtgacc acagaatttt tgctattcga aactttttatt 120
gaaaagtttt ctt 133

<210> 87
<211> 626
<212> DNA
<213> Homo sapiens

<400> 87
gaccgctcta attaaatatt ttaagggttac agcattatTTT aacagtgaaa tgttgttctt 60
tatattaaat tgtgtcttcc tgtctctata gtgcataatac atagaccttg tgaccacaga 120
atTTTTgcta ttcgaaactt ttattgaaaa gttttcttag cctaggcaac acagcgagac 180

```

ctagtctcta caaaaagatt tagccgggca tgggtgtcatc tgcctgtagc ttcagcttct 240
tgggaggctg aggcaggagg gtcacttgag cccgggagtt tgaggcacag tgagctgtaa 300
tcataaccatt gcatgggtgca ctccctcctgg gtacctgatg agaccgtgtc tctaaaataa 360
gaaaataaaa taaaggggtgt gggatttggt ttttcagtag gcaggcggtt cacggaatat 420
gggacatcag tgtgcaatct aagtttctag gttttctttt ttaggttttc ttaaaaaaag 480
atgttccctc aagtaactct taatagaact aatagtactc tcaattgttt ttttcttaca 540
gggtctatat ttacgtgcct aacagtagct ctgggatttt atcgctgtg gatctaataa 600
agtgtctatt taaagtgtaa taaaaa 626

```

```

<210> 88
<211> 380
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (372)
<223> a, c, g or t

```

```

<400> 88
tgtggccaca tcagtaagtc ctgtccgata ggatatatgc aaaagtgtca actatccact 60
tccatgaatc tccttaaaag atagtgtagt cctttgccct tcctcttcat cctctctcta 120
gttgctgcct aaatatgggc atggtggccg gagctccac tgcctggaac cctgaggaca 180
agggtgcat cctactaggg aggagagct atgagctaga cgcaatgtgg cccctggggg 240
ctctttgcag aacagccact atcccagccc ttctagatgg ggaaagcgag gccctgagaa 300
gtgatgagaa tcagtggcaa agtcagatgt accacttcag tcacacactc acattttttt 360
gctttgttcc tntttttttt 380

```

```

<210> 89
<211> 493
<212> DNA
<213> Homo sapiens

```

```

<400> 89
ttctggacct ccatgttaaa ttcttggttt gaggcaggga aagatgaaaa cttacttgea 60
gtgtagttag tgtagagaga gaaaacagtg gctgtagtta ggaacaagtg aatgttaaca 120
agtttgcttc tcaggggcat tggttaaaca acttcttaac tggccagggt ccagcacggt 180
aatcatthaac ctagggtgta gcatctgctg cctgatgtat ccagaattag tttatcatta 240
cctctaacga ccatctttta tggttccgaa gagcctctat gcagtctctt atcaccgcca 300
tgctaatact tcatttaccg ggagcagtg gctgatgttt cttagttaga ccagagtaag 360
aagtttatgg tcagttgatg aatttttaat tataactgtt taaaaagaag acgatgacta 420
tgaacagcag ctactcgtg gcaatctttg gacagtactt cgaagtgacc cactttccca 480
tttaactctt ggg 493

```

```

<210> 90

```

<211> 1119
 <212> DNA
 <213> Homo sapiens

<400> 90
 ttctggacct ccatgttaaa ttcttggttt gaggcaggga aagatgaaaa cttacttgca 60
 gtgtagttag tgtagagaga gaaaacagtg gctgtagtta ggaacaagtg aatgttaaca 120
 agtttgcttc tcaggggcat tggttaaaca acttcctaac tggccagggt ccagcacgtt 180
 aatcattaac ctagggctga gcatctgctg cctgatgtat ccagaattag tttatcatta 240
 cctctaacga ccatctttta tggttccgaa gagcctctat gcagtctctt atcaccgcca 300
 tgccaatctt tcattttaccg ggagcagtggt gctgatgttt cttagttaga ccagagtaag 360
 aagtttatgg tcagttgatg aatttttaaat tataactgtt taaaaagaag acgatgacta 420
 tgaacagcag ctactctgta gcaatctttg gacagtactt cgaagtgacc cactttccca 480
 ttttaactctt gggaagcctg gggtgccctg ttttcgactt tggaggtccg tgggctagat 540
 tcagagtgcc ctggcaggct ggcttggtgt tgaggctgtg gctgcagcct ccgcaacacc 600
 ctatctcagc acctgggaac tggcccttgg tacccgattc tttcttcttt gtgtgtgtgt 660
 gtaaatacatt ttcatttttt ctaatgatca aagtatacat taaaataaat gaaagcaata 720
 caagtccatg tgtatggtag aaaatctgga caataactaaa aatgtacaga aatggctttt 780
 aaagattaat tttcaaccta taaactaagc tacttttcat tttagtgtct ttttaaaaaa 840
 agctttttaa aacattttta agggtctatc atgttcaaga atgagggaat gtttggctac 900
 aaggccttca gtatgactct atcctatagc tggagggttta ataatacaatt atattaaagc 960
 ttttctaagc ctccagaagg gtttgtctgg gtcttattta ctataacagg caagttaaag 1020
 aaacttgagt ttaatttata tttcagttca ctttttttag acaacaagtg caatttgggc 1080
 tttatttatg gaaggagaga gttgtccttc tccccggaa 1119

<210> 91
 <211> 455
 <212> DNA
 <213> Homo sapiens

<400> 91
 gcactccagc ctgggcgtcg ataaatggca ataagggagg cgtgcctgcc gcaaggggtt 60
 tgtgaaagct ataagaacac actccctaca aattttatacc gacacaccac agacttagag 120
 gaaaagggtt cccaggccct tcccaaggcc ctgaagttga ctttctaagc caaacagacg 180
 ggacatgttg atggaaggtc cacttctcaa agaaagtctg aagcaagctc aggaaacttc 240
 tggagctttc tggagctgca cggaaaagctg tggatatgtg gccccatgac gtgggtctct 300
 gaacttgcat agacttgacg tatggcacia aaattgcaga tggaaaagag gaaaccacag 360
 ctttcacgct aatgaacagt gtttcttaca aagagttacc tggcttctag atctgtgatc 420
 atgaattcca gtaaaggcaa aaaaaaaaaa aaggg 455

<210> 92
 <211> 891
 <212> DNA
 <213> Homo sapiens

<400> 92

```

gaagtctatt atagcaatta gtttgcttta aatatgtaat ttatattaat ggccttatac 60
catccttatt ttgcaactaa cttttcattt aatattatat gcaagacatt tctattcctg 120
taagtatagc tctgcctgca cagaattggt ggattaatga tgtagatttt aaatgtcagt 180
ggatgtagca gaattgcttg catcaattca ccctccataa aaggacccat ttctccaaac 240
ccttgccaac agtaagtggg atcaatatcg ataggttggt ttgttttggt ttaaccagtc 300
tcgtgattga aagtaccttg ttttcacttg aatttccttg attacgtaca aaatcaaaca 360
tttccatggt tattggccat ttgtagatct ctaccgtaca ttgcctatta gtgttatggt 420
ggcctagttt tctgtgggt tgtttatctt ttaggattgc tcccctaaac aaaaacaaaa 480
aggcagttat tccaatgatc aacaaatatt cttttctcca ccagtttaaa atgtcagctt 540
tcaactcatc acatgctaag ttgtctattt ctgtcctgtg gatccaggtg ttggttctac 600
caaccacact cctcacgtcg tcatttgggtg ctttgcatcg tgttttgcca ttcattgggca 660
agttcctttt cctttctccc cctcttcagt gtcttatact tgggtgtttt ctgttccagc 720
tgaatcaaga attagtttat taaattccag taaaattgtg gtgttctttt gactaggatt 780
gcatttgttt acacattaat ttgagaataa tagacctctt tataattaat ataatgtttc 840
tgattagtgt tatgataggc ctcattttat taaagtcttt tatattcttg g 891

```

```

<210> 93
<211> 278
<212> DNA
<213> Homo sapiens

```

```

<400> 93
aatatccaaa tccatgttga accagtatct ttgaagattg accttcagga taaactaata 60
gcacaatctt catgcccttt cattcataac taactgaaaa gggtgacttt tgtaccagga 120
acccaacgaa gaaaacttgt atcttgtcag gggtggtaac ctggctgcca ttgactgaga 180
ccaaaaatat ccaacagttt gtcttcagct gctaagctgc tgtgggttaga atcaaacgta 240
gagtttctgg cctggtgcgg tggctcatgc ctgtaatc 278

```

```

<210> 94
<211> 274
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (95)
<223> a, c, g or t

```

```

<220>
<221> unsure
<222> (194)
<223> a, c, g or t

```

```

<400> 94
gattaccaga ttttattttt aaaattttag caatatacgt cttaatatata gccaatatac 60
tgcctatgga tgcagcacca tttttccttg cacanccct gtagagacct gcctgggtgct 120

```

```

cagaagaaga aagatngaat ttgctgttcc caggaaatgc tgcacattgt ccattttacca 180
gcatcttata gaanatataa atatgaatct acaaattctc ttggatttaa taatgtaact 240
tatatattatc ataaggtggc tattccagat catg 274

```

```

<210> 95
<211> 130
<212> DNA
<213> Homo sapiens

```

```

<400> 95
cagataccac tctaggtgat gactgccagt ctgtgcttac agcccaaacc tctcctgagc 60
accaacccat atgccacagg tgcagagaca gcacaacca gtgtcaagga gcctggcttt 120
taagagtcac 130

```

```

<210> 96
<211> 1100
<212> DNA
<213> Homo sapiens

```

```

<400> 96
gtggccactg cccttggaat gaataataat cacactgaca tacaactaag aagttatgga 60
atacattagg aatgctgagg gcacatggaa aacagtgacc cattctacct agtgggggttt 120
taaaatactt atttttaatg tttaatgctt tagggaagaa agcagggaga tgaaacatga 180
aagatgaaca ggaaatggta ggagattttt atgaaggtag aagagacagg gctttgggaa 240
tggtatcccc caggttaact cccagatttc tggcttaggc aactgagtgg caccactgtc 300
agagcctaga aatacaggct tgaaaggaga gatgctaagt gtagctttgt tggctctttg 360
ataaatatgc gacctgcacg tggagctatc caggaataac aagtcaaaag acccaagtcc 420
tcttgagagt ttctctctgag ccatatatgg tttcctttct tttttctttt tttttttctt 480
ttgagacaaa gtctctctgt cgcccaggct ggagtgatgc aatggcacia tcacagctca 540
cgaggagctt gacttcctgg gctcaggtag tctcctacc tcagcctcct gaatagctgg 600
gacagggtgc caccaccaca tctagctact ttttgtattt tttgtagagg tgggggtctc 660
ctatgttgcc caggcagctc ttcaactcct gaggctcagg tgatctgccc gcctcggcct 720
cccaaagtac tgggatcaca ggcacaagcc actgctcctg gccatatatg gtgttattta 780
atcctcacia caacctatt attatgcctc cctttaacag ctgaggaaaac tgaggcacag 840
agaaattaca taacttgccc aagattacat gactcttaaa agccaggctc cttgacactg 900
ggttgtgctg tctctgcacc gtgggcataat gggttggtgc tcaggagagg tttgggctgt 960
aagcacagac tggcagtcac cacctagagt ggtatctgaa gcctcaagag gagacaagat 1020
cacatggaac gccacggaca gaaccatgtg gagcaccatt ctcatctagg taggagtcct 1080
caaagaaggt taaaaagaaa 1100

```

```

<210> 97
<211> 591
<212> DNA
<213> Homo sapiens

```

<400> 97

```
cgatgttttt gatatgtttg ctagttataa attaaataac tatagttatc cagtttttagt 60
tttgtatgct actctcttcc ctcatcatat gatattttta aaatctagtt cagtgtttct 120
gatatatgat ccaaatagta ttaatatatt taatgtgttg aaataaacac actaatacac 180
cttagcacac agtatacaca ctaaaagtat taatattggt agtgtgtata tttctataaa 240
cactaataat atagaaatat acacactaat aatattaata ttattttatt atttttgct 300
cttcattttt tggtgatcat caactcatcc ttagttacct ccaccatcat cacaaatctt 360
ttaatattac taaaccctta ccttccttgg ttataaatta aaattaaaca caacttttgt 420
ctctagagat gcagatatag tctgtgaagc tgctttgatg gcagtgattg tgaaattcct 480
ctgattgggt caggtttggg taaatttctt tcagtttttt tactctagtt cctactacca 540
atttatagtt agcttaggac ttggacacca gaatctaagt ctatgagaaa t 591
```

<210> 98

<211> 1550

<212> DNA

<213> Homo sapiens

<400> 98

```
gatcttacat ggcttatttg taacctgcag tattgaccat tgcccccttat aatttatagg 60
taaattctgt tgatcagcat ttttaacagc tcaatcgatg tttttgatat gtttgctagt 120
tataaattaa ataactatta gttatccagt tttagttttg tatgctactc tcttccctca 180
tcatatgata ttttaaaaat ctagttcagt gtttctgata tatgatccaa atagtattaa 240
tattattaat gtgttgaaat aaacacacta atacacctta gcacacagta tacacactaa 300
aagtattaat attgttcagt gtgtatat ttataaacac tcaataatat agaaatatac 360
acactaataa tattaatatt attttattat ttttgccctc tcattttttg ttgatcatca 420
actcatcctt agttacctcc accatcatca caaatctttt aatattacta aacccttacc 480
ttccttgggt ataaattaaa attaaacaca actttgtctc tagagatgca gatatagtct 540
tgtgaagctg ctttgatggc catgtgattg tgaacattcc tctgattggg tcagggtttgg 600
gtaaatttct ttcagttttt ttactctagt tcctactacc aatttatagt tagcttagga 660
cttgagacac agaactctag ttctatagag aaatggactg agtctgtcct gttcacagct 720
agatcttgaa cacccaagaa tataatacct gatgcaaagt agttggtact cagtagatat 780
ttgttgaaat aaaaatgtcc aaatcaaaga aaccacagtc tgatgcccat atattcctat 840
atacaaaatt gtacattata cttaatatat agaagtgtat attaaaccta aatgttctaa 900
tactattttt acatctacaa cataaaaaag aataatgtag gctcaaatat cagataaatc 960
taggttgaga ttgtggcctc atcatttact taaagtgtgt tcttgggcat attagtaggc 1020
attctaagtt tcagttccct cttctcttga ttatataata attactacat ggaattgcta 1080
tgggagatta atacaaataa agctcatagt actgtggctg tctaaacttt tagctgtcat 1140
tattctaaca gttattacta tcctattctc aactgttttt aaatagtatc ttgctgtttt 1200
ttaactttat gtccatttta ctgttccact ttatgagcca cagagtctgg aatccagcct 1260
tggttctctc agaactattg attttctatg ttcttggttg aacaattttc tgcttttagaa 1320
aatctgcac agtcttcttc ttacagatt ttccctcttt attgtaaaga tctttaatcc 1380
atggaattta ttacaaatta atgattaatg gactggctct gagtgaataa ttcagcagct 1440
gaactaaggc tgtcttaaat agcaccaata taagtgaatt caggtaaacac acaatgggta 1500
cttttgctct gctgcagatg atagctcttt accttctgtg gtttttccat 1550
```

<210> 99

<211> 535
 <212> DNA
 <213> Homo sapiens

<400> 99
 tattttccaat atcatctcac tttataatattt attcatgtaa actaagtttc taaagtggaa 60
 attttagaat ttcccttctg cttctgaaaa cacttcagtg gcttttcatt ggcccaaact 120
 ttttgggggt agtattcaaa agtttcatga tttggccctc atttgccctt ctgatgtcat 180
 catatgtcac tctctcccat atactttaat gcaagttttg tgatctctga gtacatgtca 240
 aacttctact ttaactccac ttgtcatttg tggtatgaag actggaagcc ttccttttcc 300
 ccaggcttgg gtgaagccaa gtgctttaca tacctggaat gtctttgtca cagtaatttt 360
 cagttagttt gtaattgctc atttaattaa cttagtcccc tccactagatg tgagtacttt 420
 gaaggcagta atttttttta aacaatgggt gcttaacatt caataatagc ttgtagattg 480
 tgggtgatttt atatattttg gcagtttttt aatgttttat tttgaaactg gagat 535

<210> 100
 <211> 493
 <212> DNA
 <213> Homo sapiens

<400> 100
 acatcccttt gctacacttt tcatgctcat gttttacttg gtgtgtgatt tcctttctgc 60
 ttctttacta aaccgtggac ttcttgaggg cagaggctag atcttggtca tctttggagc 120
 catagtctcc attagttgga tgaatgagta cgtgaatgaa tgcttgaatg aatggagtgg 180
 aatgaaccct gtctccccag ttctatgtcc acctcttatt cattctgtga ctttgggtag 240
 gacatttaac catagttaat aagaatcatc acaactgttt gcctttctca catactgggt 300
 tcaaaatcaa taaagtattt aaggcaatgc tttaaaaacc atacagcact gtacaaatat 360
 gctatcccat ggttaagtag aatttagtgg gaaaattgat accatcaaca tttgattgca 420
 atgattttat ctaatagaaa attaatcttt cctgggcaca gtgggcttca cacctgtaaa 480
 tcccagcact tcg 493

<210> 101
 <211> 843
 <212> DNA
 <213> Homo sapiens

<400> 101
 ggccgaaata caatttaatt aaaatactta ttttcttatt agaaagctgc ctctcaatgg 60
 cacctactgc tacatttaca tagtaaccca aaattgcagt tgcttagcag ggagagaatc 120
 acagtgtctg atattattta tactttttct tccaaaacga tttgaggaag tactgtgctg 180
 gccattgttt acatcatatt aggagatctg gatgtcactt tcttttccca tatcctcgat 240
 ttctcactt tttaaaatgt catgtgtttt tgtaagtttt cttaaatect ttggaaatgt 300
 gatgacggtg aaaaatccct gaaggcttct atacacctgt tggcatggaa tattttgcaa 360
 cccgtttctt ccctacaaac agaagagaca actaaatacg gtttgatcta catctgcaag 420
 agcctagcca ttcagtatta aaaagtgatg gccctgggtg acggtaccac acctgaagac 480
 ctatgccctt tccttcacac tccctacttc tgcatttctt ccctcctgaa cgtctatcaa 540

gtggaccata tgaaattgcc agtattcaac tgttttttat cttaaaaggt gacaattcta 600
tatcattcaa cctaaattaa tgtctcaaga acataacctt tgtttctatt attgtgacct 660
tacttttaac catcctagag ctctttaacc tgttcacact ggatttcaag gatcttaagt 720
tgttttacta cataatcact atcacacttc agaaacattt tagtttacat taaatacact 780
taacccctc atatttcac tcttcctttc tcaaaaatag taataaataa cctcaagcca 840
tta 843

<210> 102
<211> 1101
<212> DNA
<213> Homo sapiens

<400> 102
gcacgaggggt ctcggctcac tgcaacctcc gcctcccggc ttcaagtgat tctcctgcct 60
cagcctcccc agtagctggg atcacgtagc gcccgccagc atgcctggct aagttttgta 120
tttttagtaa agacaggggt tcaccatggt gcccaggctg gtcttgaact gctgaccttg 180
tgatccgccc gcctctgcct cctaaagtgc tgggattaca ggcatgagcc cggccgaaat 240
acaatttaat taaaataact attttcttat tagaaagctg cctctcaatg gcacctactg 300
ctacatttac atagtaacct aaaattgcag ttgcttagca gggagagaat cacagtgtctg 360
gatattattt atactttttc ttccaaaacg atttgaggaa gtactgtgct ggccattggt 420
tacatcatat taggagatct ggatgtcact ttcttttccc atatcctcga tttcctcact 480
ttttaaaatg tcatgtgttt ttgtaagttt tcttaaatcc tttggaaatg tgatgacggg 540
gaaaaatccc tgaaggcttc tatacacctg ttggcatgga atattttgca acccgtttct 600
tccttacaac cagaagagac aactaaatac ggtttgatct acatctgcaa gacccatagcc 660
attcagtatt aaaaagtgat ggccctgggt gacgggtacca cacctgaaga cctatgcctt 720
ttccttcaca ctccctactt ctgcatctct tccctcctga acgtctatca agtggacctt 780
atgaaattgc cagtattcaa ctgtttttta tcttaaaagg tgacaattct atatcattca 840
acctaaatta atgtctcaag aacataacct ttgtttctat tattgtgacc ttacttttaa 900
ccatcctaga gctctttaac ctgttcacac tggatttcaa ggatcttaag ttgttctact 960
acataatcac tatcacactt cagaaacatt ttagtttaca ttaaatacac ttaacccctt 1020
catatttcat ctcttccttt ctcaaaaata gtaataaata acctcaagcc aaaaaaaaaa 1080
aaaaaaaaaa aaatatgcgg c 1101

<210> 103
<211> 176
<212> DNA
<213> Homo sapiens

<400> 103
gggtaacaga gtgagactcc gtctcaagag aaaaggaatt ttcttatttt aaaaataata 60
ttctgttgtg tatatctacc acattgtctt catttactca ttagatgtta aactgtttat 120
tctgtatttt ggctattgtg aaaagtgtca caaacagaat tgcaaatgtt tcttca 176

<210> 104
<211> 1689

<212> DNA
<213> Homo sapiens

<400> 104

```
ccgctcattt tttttttttt tttttttttt tttttttttt aaacaaacaa aatttattaa 60
actttcaaaa tacaaaaaca tcatcaaaaa gtcatagcat ttctatacat tagtaactat 120
ctcaaaatga aattcaaaaa aattccatct acctaactat agtttgaagt aaatttaacc 180
aaaaagttga aacaccttac attctactct aaagaacatt atacaaatta agtaacacat 240
aaatggaata atattactca ttcatgaact ggcattttta atagttaa atttgtatta 300
cacaaaatga tctgcagata taatgcaacc tctatcaaaa taccagtgc atacttcata 360
gacattttta aaaagcatat ctaaaattca tatggtacca caaacacccc taaatagcca 420
aagcaatcaa gacaaaagaa ggtatcaccc tgactttgaa atacactaca aaactgtggg 480
aaccaaaaca gtatgtcact tgaataaaaa cagagatata ggccaatgga gcagaagaaa 540
aagagagcag aaatatatca gtgtatttac agctaactga ttttaaatac aggtgacttt 600
ttttttttta gggaaataac agtatcttca ataaatgatg tttagaaaac tttatgtcca 660
catgcagaga aaaaaagtg agaccctcat ctacacccat atgtaaaaat aaactcaaaa 720
taaattagcc acttaaatgt aaggcctaaa actcttaaac tactactacc aaaaaataga 780
gtgaaagccc cataacattg gtctgggcag caagtttttt gatttaacct aaatatccca 840
ggacacaaaa ggaagaacaa gtcagtcaga tcacttcaaa ttaaaaagct gctgcacaga 900
atctgataca tgaacagaat gtgacaacta aaaaaaggga gaaaatattt gcaaattata 960
catgtgacaa ggggttaata taaaaaatat atacaaaact caaatgacaa tacaacaaaa 1020
ataagtaact attaaaaata agtagctgaa ataagtattt ttcaagaaaa tacatacata 1080
atggccaact gatatattta aaaatgctca atgtcaatta tcacaaaaag gcaagccaaa 1140
aaagaaaaaa caaaactagg agatatcaac tcattcctgt tagaatgact cttattaaaa 1200
agaaaaagcg ttggtaaaga tgtgaagaaa agggaaggct tgcacactgt tggtttgga 1260
tgtaaatgaa gacagccatt atgaaaaaca aaatagagat ttctcaaaaa acttaacta 1320
ccatgtcata acagcaattg cactactgga tatatatcca aaacaaataa aatcagaatg 1380
aagaaacatt tgcaattctg tttatagcac ttttcacaat agccaaaata cagaataaac 1440
agtttaacat ctaatgagta aatgaagaca atgtggtaga tatacacaac agaataattat 1500
ttttaaaaata agaaaattcc ttttctcttg agacggagtc tcaactctgtt acccaggctg 1560
gatgcagtgg cacaatctca gttcactgca acctctgcat ccctggctca agggattctc 1620
atgcctcagc ctctggagta gctgggatta caggcatgca ctaccatgcc catgcccagc 1680
tgagattttt                                     1689
```

<210> 105
<211> 768
<212> DNA
<213> Homo sapiens

<400> 105

```
aaaaaattaa aagcttctag agacttctgg tttctacttc cacacataag gaacttggaa 60
attgccactc catcctatca acaagtaaaa agctaaatgg actaaaaaat caacaactct 120
tataagacgg aaagtcactg agtatgatgc tgectcccaa cttggagaat acagggagtc 180
acatctctcc agagtggaga ttcattgaga gaaacaccaa tgagaaaaag aaatggagta 240
tgaaacctga actctaattg atgaatttct ggagaataag tgaggacaag actgagaatt 300
aaacattcca gaaaaactaa ctcataaggg gaacttcaca atattttgag attcaccttc 360
acaaatttga ccattttcca cagcaaatat cagagaaaaa ttaacttgta cattcaggag 420
```

```

agaaagggaa aaagaaacct ctttgaaata taccacagag ctctattcct cttatcaagg 480
cctgccctca gaagaaacga attaaccaaa actatcatca gagcctaatt gacctgggga 540
agagaaatgc ttgtctcctg ctccactagt tttctacctg tgagaaggca aatacacaac 600
tccagccac tctagtcac ttgtcctacc aaagcgggag aacaaaacag aacaacactt 660
gtaaagttga caatccagac gcatagactc actaaaaagc tgagatgtaa tcattaaact 720
aaaatccttc ccctgccact acaccatatt actaaaggcc tattttaga 768

```

<210> 106

<211> 612

<212> DNA

<213> Homo sapiens

<400> 106

```

gggaatttca gacaacctag cctagactaa atgggtgggca gcacctggca gacaagaact 60
caagaacctt ttctcagggtg gctctgcttt gctgcaggta atggagaagc actggagatt 120
tgtaagccac ggagtcaa at ggtggactgg gattttcagg agatcattta gagagcaaga 180
tcttaccaaa tccttttagtc atgggtctatt tcgttgcaact catatgggtt ttactgcaaa 240
ggtgaagaac taatgactgc agcaggaaaa agaattggat gtgtcatgaa ttatggccct 300
gcttataact ctacttcaac cgtaatcatt tgtttaaaca aaaagttctg catttgaatt 360
gtcacaattg tgtgtgtgtt ataaacatct catatttcat ccaggctcag ccaacacttg 420
cctttattaa tgctcataat caagaaataa atctcactact aacccaaaaat tctccttcat 480
aagagaatat aaacagaagt ctggttcata aacttactaa ttaacacctc tattctcatg 540
tatcaactaa catttttggt tcgtcttaaa ataaataaaa ctttatgaca tgctaataat 600
ttatttaaaa aa 612

```

<210> 107

<211> 628

<212> DNA

<213> Homo sapiens

<400> 107

```

aaattatttg caaacacttt ttagctgaac cctctcattt cacagtggag ccttttaattg 60
tttcctttgc agaactcaag aaccttttct cagggtggctc tgctttgctg caggtaattgg 120
agaagcactg gagatttgta agccacggag tcaaatggtg gactgggatt ttcaggagat 180
catttagaga gcaagatctt accaaatcct ttagtcatgg tctatttcgt tgcactcata 240
tggttggttac tgcgaagggtg aagaactaat gactgcagca ggaaaaagaa ttggatgtgt 300
catgaattat ggccctgctt atacttctac ttcaaccgta atcatttggt taaacaaaaa 360
gttctgcatt tgaattgtca caattgtgtg tgtgttataa acatctcata tttcatccag 420
gctcagccaa cacttgccct tattaatgct cataatcaag aaataaatct cataactaacc 480
aaaaattatc cttcataaga gaatataaac agaagtctgg ttcataaact tactaattaa 540
cacctctatt ctcatgtatc aactaacatt tttgtttcgt cttaaaataa ataaaacttt 600
atgacatgct aataatttat ttaaaaaa 628

```

<210> 108

<211> 103

<212> DNA
<213> Homo sapiens

<400> 108
ctagaccacg ttgtggaaat gtctcacaac attgatctac taggcaagga tttttgaggt 60
cagaccgcaa aaaccacagg gcaaccaaag gccaaagtta gac 103

<210> 109
<211> 348
<212> DNA
<213> Homo sapiens

<400> 109
gtgaatcctt gtaatcctcc gtctccagac ggcagtggcc agagtggacg tggaggcctg 60
agctgtggcc tgggctgtgt ctggaggctg ggatttgggc tccggctctg tcccagccca 120
gatgctggtc ccttccactc tggtcaggtc agtgaataga gcaccagga aatggttgct 180
gcggtcatag ttgtggctgt gggtattaat aacactgtcg tgttactgtt atgagagagt 240
gtggtgagag catctgtccc agcctagcag gccacagact ttctagaggg gcagtagagg 300
tagaaacaac tcaggattct gagagtcctc aagtccatcc tggccctg 348

<210> 110
<211> 616
<212> DNA
<213> Homo sapiens

<400> 110
cgaggctggc ggtgcgctgc ttcctcagag ccgcttcctc agagccggct gcggcgggccc 60
cgggcgggaa ccacggagcc cagtgcacca gcctcctcgg tgctaccgcy ggacacagag 120
gaaacaggaa cagctggttt ctgtgggcag gccccgggct ggaactagag ccagggtgcy 180
gccggcgggg gacagggaaa gagatcacag cgaagaccca gaagaaaca aaggcaagcy 240
aatattttta tatccaactg cctactggac accaaccacg tggacaagtc ctggttgcct 300
caaactcaac atgttcaaag ctgaatacat cacctgctct cccaaatatg ctctctcct 360
gctgttccca aaatcagaaa atggcttcac gatcagctca gtcattctca gagcaaatgc 420
tgagagtcac ccttgaatcc ttctgttgcc tccacattca aaccatcacc atatccttga 480
tttctctact gtatatTTTT catatgtgtc cacttctttc catctgcact ctcattagtg 540
aaggccacca acatctctca tctgaatgcc tgcaatacct cctcacaggc caccaggcat 600
ctagttttgc ccctgt 616

<210> 111
<211> 1049
<212> DNA
<213> Homo sapiens

<400> 111
atgagctccc gagcttgggt tcctgaagtg gattatgctg gaggaacaca ggtagaagca 60

```

gaagtaacaa aggagagaag gagactgccc tactgcccta taccaggaag gaataaaagcc 120
aaaaaaacag aattctccaa gtgtcaagca aaaacacata ctttgcacac gtttctcgag 180
gtccagcccg aaagcctgcg ccctggggcg tccctgcttc ggcccccaga ggggggcag 240
cctcgctcct ccctccgcca ggctgcccg ggaggcctcg acccggcgag gtgacccgcc 300
ccagggtcgc cggcgcgagg acgaggctgg cgggtgcgctg cttcctcaga gccgcttcct 360
cagagccggc tgcggcgggc ccgggcggga accacggagc ccagtgcacc agcctcctcg 420
gtgctaccgc gggacacaga ggaaacagga acagctgggt tctgtgggca ggccccgggc 480
tggaactaga gccagggtgc ggccggcggg ggacagggaa agagatcaca gcgaagacct 540
agaagaaaca aaaggcaagc gaatatTTTT atatccaact gcctactgga caccaaccac 600
gtggacaagt cctggttgcc tcaaactcaa catgttcaaa gctgaatata tcacctgctc 660
tcccaaatat gctcctctcc tgetgttccc aaaatcagaa aatggcttca cgatcagctc 720
agtcattctca agagcaaagt ctgagagtca cccttgaatc cttctgttgc ctccacattc 780
aaaccatcac catatccttg atttctctac tgtatatTTT tcatatgtgt ccacttcttt 840
ccatctgcac tctcattagt gaaggccacc aacatctctc atctgaatgc ctgcaatacc 900
tcctcacagg tcaccaggca tctagttttg cccctgtcct gcccttccct catctagagt 960
gaagccagta ggaaccttcc aaaatgaaaa tctgattaag tcacttcttt gcttaaaaact 1020
tttttatggt ttcacagccc atgaaaata                                     1049

```

```

<210> 112
<211> 388
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (324)..(364)
<223> a, c, g or t

```

```

<220>
<221> unsure
<222> (364)
<223> a, c, g or t

```

```

<400> 112
gtgaccttgc actccctggt cctgaagctg cctctctgcg cgctttctac tgggctcgtc 60
tctttccgga gcccagcgt ctctgcccc aattcacgc ggaaagggcc cggggcgag 120
gtgacaccgg gcgtcggcag cgcagacctc ttggccttct ctcacaggtc ggtgcgctcg 180
ctctccgctg tccccgcccc actgccgtgc agtccatggc tagacgcgcc ggacaggact 240
gatggcgggg ccgctgctgc cgagaaaagg acggaccaat acgtgtgttt cctccgctat 300
cagtcccgct gcttcgggca cctncggggc ccggcggtcg gctaatgttt tgtttgaaag 360
atcngtggaa tttttaagag agtatTTA                                     388

```

```

<210> 113
<211> 756
<212> DNA
<213> Homo sapiens

```


<212> DNA

<213> Homo sapiens

<400> 115

tgggcggaact ccccatggcc agaggctgag ctccactccc gccggccgct ccctagggga 60
aggggaagga gaggggagag cagcgacagg cctccagcaa gcaaagcgcg ggcggcattcc 120
gcagtctcca gaagtttgag acttgccgt aagcggactc gtgcgccccca actctttgccc 180
gcgccagcgc ctggagcgga gagcagaggc ggcccggccg cggcgcgccg gctttgtcat 240
gatggccagc taccgagc cggaggacgc ggcgggggcc ctgctggccc cagagaccgg 300
tcgcacagtc aaggagccag aaggggccgc gccgagccca ggcaaggcg gtgggggtgg 360
cggcgggaca gcccggaga agccggacc gccgcagaag ccccggtact cgtacgtggc 420
gctcatcgcc atggcgatcc gcgagagcgc ggagaagagg ctacgctgt ccggcatcta 480
ccagtacatc atcgcggaagt tcccgttcta cgagaagaat aagaagggt ggcaaaatag 540
catccgccac aacctcagcc tcaacgagtg cttcatcaag gtgccgcgcg agggcgccgg 600
cgagcgcaag ggcaactact ggacgctgga cccggcctgc gaagacatgt tcgagaaggg 660
caactaccgg cgccgcgcgc gcatgaagag gcccttcgg ccgcccgcgc cgcacttcca 720
gcccggcaag gggtctcttcg gggccggagg cgccgcaggc ggggtgcggc tggcgggcgc 780
cggggccgac gggtacgggt acctggcgcc cccaagtac ctgcagtctg gcttctctca 840
caactcgtgg ccgctaccgc agcctccctc acccatgccc tatgcctcct gccagatggc 900
ggcagccgca gcggctgcag cagctgcggc tgcagccgc ggccccggta gccctggcgc 960
ggccgctgtg gtcaaggggc tggcgggccc ggccgcctcg tacgggcccgt acacacgcgt 1020
gcagagcatg gcgctgcccc ccggcgtagt gaactcgtac aatggcctgg gagggccgc 1080
ggccgcaccc ccgctccgc cgcaccccca cccgcatccg cacgcacacc atctgcacgc 1140
ggccgcgcga ccgcccctg cccacccgca ccacggggcc gccgcgcgc cgcggggcca 1200
gctcagccct gccagccag ccacccgcgc gcccggggc cccgcgccc cagtgcgcc 1260
gggctgcag ttcgcttggtg cccggcagcc cgagctcgcc atgatgcatt gctcttactg 1320
ggaccacgac agcaagaccg gcgcgctgca ttcgcgcctc gatctctgag agcccaccgc 1380
atgccggtgc atgacggatg cgaggatgca gggacgcgc acgcccggcc cggtcgcagc 1440
cgacgacgcc gccgcagcc tgacctcaca cctctgggc ccgctctgag agccagcgcc 1500
cagggtccct ctgtgctttt tcgctttcct aagctcctgt cgtcctctt tgtcccctca 1560
gtttatgtcc tctgtgtctc acctccctga cctctgtgac cttgactcc cctggcctga 1620
agctgcctct ctgcgcgctt tctactgggc tcgtctctt cggagcccc agcgtctcct 1680
gccc aaattc accgcggaaa gggccgggg cgagggtgc accgggcgtc ggcagcgag 1740
acctcttgcc cttctctcac aggtcggtgc gctcgtctc cgcgttccc gcccgactgc 1800
cgtgcagtcc atggctagac gcgccggaca ggactgatgg cgggaccgc ctgcccgaga 1860
aagggacgga ccaatacgtg tgtttgctcc gcgaaccctc ttgaagctgt tcagaagccg 1920
cttgccgcgg gggccactag gcggggcggg ggttgggacc cagcgggagc cggggcagcc 1980
tggctccacg gcctgtactc ggtttacacc gcgggggggc gcggaggag gctgcgtttc 2040
ctccgctatc agtcccgtcg cttcgggcac ctccggggcc cggcggtggt ctaatgtttt 2100
gtttgaaaga tcggtggaac tttttaagag agtatttaaa aaaaaaaaaa aaaaaaaaaa 2160
ttcaccgggc aaccggggaa gtattgtggc cttggagttt gctaaatcca aatatgaaaa 2220
tcaaaagctt tagtattcct catctctct tctggaagat ttgcgttaga gtttttgttg 2280
ggccttcaaa aagctgtgtt cagagttagg agaatatatc caataaaaga tggtttcgtc 2340
taccaattgg ggaagtttca ccctctccct atctgaagaa aaaaatcaaa aacaaatgtc 2400
cccgatctt tcgatgcaag tcctggaggc agggagatca ctgcctgcct ggcccacgct 2460
gctgggacgg ctgctctcc ctgctttttg tttttcaaac ctctgcttc tcccaccttg 2520
ggaaggagaa atgtgaaacc cggcagcgcc cgacctaggc ggtcttgtgg cccggagccg 2580
gcccggcccc aaaaccatag acctggttgt actgtagctt gttgtttggg ggaccaaatt 2640

ttctagagag aactagagca cttttgttgt gtttttttgt tttgtttttg ttttttgcc 2700
 tgtcgattcc cgaataaatt ttgtgttcct tcttttaaaa aaaaaaaaaa agg 2753

<210> 116
 <211> 81
 <212> DNA
 <213> Homo sapiens

<400> 116
 gttgcaatat ttttctcttc ctgttttgac cttgctcatg gtgcctttta tttttattta 60
 attaattaat ttattgtcta a 81

<210> 117
 <211> 558
 <212> DNA
 <213> Homo sapiens

<400> 117
 gaaagtaagt taagaagagg aaatcaaagt gagctgtcta atctttaagt aggcattaca 60
 ataacaattg attagttctg ccaattcttt tacaaatttg gttatctaca ctttatttct 120
 gtgtgtataa gtggaatcac aggcctgctt tactgctgtg atgcagtagc ttgaattgtg 180
 ctataaatag catattttgc ctgtaatatc aactataagc attctctata atcaagcaat 240
 tatgcctcta aagcacataa aatttaaaaa tctgttctta ttagctctgg aaatattgtg 300
 gaattttaca tgggaatctta tcttggggaag gtagattttg aaattcttag aggattattt 360
 gtccccattt ccattcagct gacatgggtga cttttgtcac aagtcctaaa aattagaata 420
 atcagagggc aaggggggaca tcaactgcag atgttgagga agcctagtgc aatttagaat 480
 aaattttact atttaaaact cacctattgc tcagagagca attatatatt ggtaggaatg 540
 actcatctat gggctaaa 558

<210> 118
 <211> 693
 <212> DNA
 <213> Homo sapiens

<220>
 <221> unsure
 <222> (209)
 <223> a, c, g or t

<220>
 <221> unsure
 <222> (444)
 <223> a, c, g or t

<400> 118

```

gtcacacaca ctcttctgac actgacgacc tggagtgtca cagaccctga aggtgaaggg 60
ctctgtccca caagactctg cccctacttc tgatgacagc cgtacatggg taccaggca 120
accacactc actcctgaca actgcagatt tggggaactt tacatcccct cagattcact 180
agaacacctc ccagggtcga ggaaagtgnt ttacgtacaa tcatgcttat tatgaaggaa 240
acccatgaac agctcagtga agagagtggg gaggtgggca tgatctctga gcaccgtggg 300
ggctccccag cctgggggct ccccaaccct gatgcccata agtttttatc taggcctcat 360
tacacaggta tgattgatta agtcattggg cattgggtgat tgaacacaaa ctcaatctct 420
ggccccctcc aggagtgggg gcnrtgaggg gggctggaag ttcctctcta attacatggg 480
tggttcctct ggcaacaagc tcccacccta aagctacctt ggggtcccc aagagtcacc 540
tcattagggg aaacaaatgt ggtgaaaaag agttgttatg aaatcagaca cccctatcag 600
gaaattccaa agatttaagg agttctgtcc ctggaacagg ggacaaagac cagatgtatt 660
ttttattata ccacaataa aatctcttaa ttt 693

```

```

<210> 119
<211> 838
<212> DNA
<213> Homo sapiens

```

```

<400> 119
tcacacacac tcttctgata ctgacgacct ggagtgtcac agaccctgaa ggtgaagggc 60
tctgtcccac aagactctgc ccctacttct gatgacagcc ggtacatggg taccaggca 120
accacactc actcctgaca actgcagatt tggggaactt tacatcccct cagattcact 180
agaacacctc ccagggtcga ggaaagtgnt ttacgtacaa tcatgcttat tatgaaggaa 240
acccatgaac agctcagtga agagagtggg gaggtgggca acctgatctc tgagcaccgt 300
gggggctccc cagcctgggg gctccccaac cctgatgccc aaaagttttt atctaggcct 360
cattacacag gtatgattga ttaagtcatt ggtcattggg gattgaacac aaactcaatc 420
tctggcccct cccaggagtg ggggcgggtga ggggggctgg aagttcctct ctaattacat 480
ggttggttcc tctggcaaca agctcccacc ctaaagctac cttgggggtcc cccaagagtc 540
acctcattag ggtaaacaaa tgtggtgaaa aagagttggt atgaaatcag acaccctat 600
caggaaattc caaagattta aggagtctctg tccttggaac aggggacaaa gaccagatgt 660
atTTTTtatt ataccacaga agagtaataa gacgaacata tataccagc atccaaatta 720
agaaacataa cataaaggta tcttttaagc ctcttgtgtt cctttgtgaa tatatttctt 780
ctgcttccca gaggaaccca ttatcttgaa ttttgtgtta tctgttacct tgcttgct 838

```

```

<210> 120
<211> 551
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (494)
<223> a, c, g or t

```

```

<400> 120
gtaacttctt taacatcaca ttgcttggag atatcagttt ggctgttcat ttctaattta 60

```



```

gattgtttcc aaatgttcag aattaaaatc tgtatactta aattctgtac atagatcact 120
ttgggagttc tgaaatatcc atgaatactt gcaccttttt ccagaatcta aacttcatac 180
atctagtttt gttcttgtaa attgttttga ggaagtgggtg gtcagtgtca caaaccagct 240
gtggctccaa acagacacca ggatttaggc ccattacaga gagaccaccc tggaaatatt 300
ctacagtga gaggagcttt cagtctagaa gaggaggaaa tgatacttag tttagtcac 360
atgtgctttg gcaagaaatt acagtcgaaa ggaaggaaca gataaacatt gtgtggtgta 420
gccactttga agagtgggtca aattccctgt ggcaaaactt cctcctcccc tcttcattcc 480
ccattcccc tatnttgatg ttagataggt ggcactttac tgtgtcactc ccggcctatn 540
ctccccacaa c 551

```

```

<210> 121
<211> 635
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (540)
<223> a, c, g or t

```

```

<400> 121
gtaacttcct taacatcaca ttgcttggag atatcagttt ggctgttcat ttctaattta 60
gattgtttcc aaatgttcag aattaaaatc tgtatactta aattctgtac atagatcact 120
ttgggagttc tgaaatatcc atgaatactt gcaccttttt ccagaatcta aacttcatac 180
atctagtttt gttcttgtaa attgttttga ggaagtgggtg gtcagtgtca caaaccagct 240
gtggctccaa acagacacca ggatttaggc ccattacaga gagaccaccc tggaaatatt 300
ctacagtga gaggagcttt cagtctagaa gaggaggaaa tgatacttag tttagtcac 360
atgtgctttg gcaagaaatt acagtcgaaa ggaaggaaca gataaacatt gtgtggtgta 420
gccactttga agagtgggtca aattccctgt ggcaaaactt cctcctcccc tcttcattcc 480
ccattcccc tatnttgatg ttagataggt ggcactttac tgtgtcactc ccggcctatn 540
ctccccacaa cactacttgg agtttaatca taagatcgtg gttttatttt tttcccttaa 600
aagatggatc tttatttctt ttacttttat attct 635

```

```

<210> 122
<211> 118
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (99)
<223> a, c, g or t

```

```

<220>
<221> unsure
<222> (113)

```

<223> a, c, g or t

<400> 122

attcagggct ccttccattt taccacacta ttcaaaattt ggattctcta tgtagccaaa 60
tggataatga gaacccaaaac ataaaaaaag agaagaaana aaaaaagaaa ganaaaga 118

<210> 123

<211> 673

<212> DNA

<213> Homo sapiens

<400> 123

tttttttttt ttgagacaga gtctcgctct gtcgcccagg ctggagtgca gtggtgcaat 60
ctcagctcac tgcaaacctc cgcctcccgg gttcatgcca ttttcctgcc tcagcctccc 120
aagtagctga gactacgggc acacgccaca acgcccgggt aattttttgt attttttagta 180
gagacaggggt ttcaccgtgt tagccaggat ggtctcgatc tcctgacctc gtgatctgcc 240
tgctcggct tcccaaagtg ctgggattac aggcgtgagc caccgagccc agcctaaaaa 300
ctatttttat atattctctt tacatctcca taatcctgta aggacgtagg cattattctt 360
tttttctaga taattgccat aataaattca tggaaatcagt gtagggaaga caaaaaaaga 420
aaaaaaaaat tcagatgaga aaactaaggg acttgctcaa agctgcacaa ctagtaggaa 480
cagaataacc caattcttac agtgtcttca ttcagggctc cttccatttt accacactat 540
tcaaaatttg gattctctat gtagccaaat ggataatgag aacatgtata aaataataaa 600
gaaataaaact acaatcataa aaagtaacta aaatagccaa ctgtcatgta aaaggatatgt 660
agcaaaactga cag 673

<210> 124

<211> 370

<212> DNA

<213> Homo sapiens

<400> 124

ggggagagca gagcagagcg tgaagggtgct gggaggcctg cctcaaagtt ggcaaaaccc 60
acagcgtctc agagctgctg tcatgttcta gttcctgctc ctgtgccagt gagaccagaa 120
aaccaggcca ctcaaaagcc tcttgctgtg gctctctatg aatggaggct ggggcaaggg 180
caggaccctt gggcctcagg cgagaagaag cagatttacc ctcagctttc ttctgtctg 240
tggcattggc tgtgccccgg attttaggag ccttggccct tctcatccga gaagcacctc 300
taacgcgaac cctccttcgc gcantatagc tgcaaagatg aaccgtcttt gaattgtaca 360
aaagcttatg 370

<210> 125

<211> 896

<212> DNA

<213> Homo sapiens

<400> 125

```

cacaagacat agcagcagag gtgcacagcg ctcagcagtg acctcgcatg caccgaggct 60
ggacccccga accaaatctc cctggctcca cctttcacaa gctgcgcgaa ggggacaagt 120
cctgccacct ataagcctcc gtttccatgt ctatacactg gggttcctag ctcacgggac 180
tgtcggggta attgagttag ttaacgtcta gggagcacct gtgacatgcc aacacagtgc 240
tgtcatttct gctgttggtc atttttctgc atctttatct gtaaggattt gaaagaatgt 300
acagttggaa acctgatgat ctcaagcaga aaatatcttt tcataacgct gagcatgaat 360
gacatgagaa tccatgtctg aagtgaatc gtatggatct gaagaatggg tgggtgccagc 420
cctggtggaa tggggtgcga aggagggagg atgagagcca gacgtttcag tctgggtgac 480
cctgccaccc agagccacct tccattaact gaggggtcca gggctccctc cgggccactt 540
gccactaaag ctgagctaaa gtctcaaaaa ggacacattc ggagccaagc aacaggcaca 600
gcccattgta ggaatgtttc tgcaatggaa aaatacaaaa ccagaaagga agtgtgtggg 660
cctaactgta catgtttatc aacattttac tgcaatgtat gacatttctg tgagcacaag 720
attagccttg gtattttttt ctgggaagta taaaagactt tttttttctt tcttttggtt 780
ttcaatttct ctctagagga atttaaaacc ggatatttcc atcttaaagt tcttgagcaa 840
gtctgtcagg gtgtccatat ttcttaccct gttcctctca gcatcgaagt gctatc 896

```

```

<210> 126
<211> 998
<212> DNA
<213> Homo sapiens

```

```

<400> 126
cacaagacat agcagcagag gtgcacagcg ctcagcagtg acctcgcatg caccgaggct 60
ggacccccga accaaatctc cctggctcca cctttcacaa gctgcgcgaa ggggacaagt 120
cctgccacct ataagcctcc gtttccatgt ctatacactg gggttcctag ctcacgggac 180
tgtcggggta attgagttag ttaacgtcta gggagcacct gtgacatgcc aacacagtgc 240
tgtcatttct gctgttggtc atttttctgc atctttatct gtaaggattt gaaagaatgt 300
acagttggaa acctgatgat ctcaagcaga aaatatcttt tcataacgct gagcatgaat 360
gacatgagaa tccatgtctg aagtgaatc gtatggatct gaagaatggg tgggtgccagc 420
cctggtggaa tggggtgcga aggagggagg atgagagcca gacgtttcag tctgggtgac 480
cctgccaccc agagccacct tccattaact gaggggtcca gggctccctc caggccactt 540
gccactaaag ctgagctaaa gtctcaaaaa ggacacattc ggagccaagc aacaggcaca 600
gcccattgta ggaatgtttc tgcaatggaa aaatacaaaa ccagaaagga agtgtgtggg 660
cctaactgta catgtttatc aacattttac tgcaatgtat gacatttctg tgagcacaag 720
attagccttg gtattttttt ctgggaagta taaaagactt tttttttctt tctttttggt 780
ttcaatttct ctctagagga atttaaaacc ggatatttcc atcttaaagt tcttgagcaa 840
gtctgtcaag gtgtccatat ttcttaccct gttcctctca gcatcgaagt gctatctctg 900
ttacactcat gtttgctgtt cacaatggag tactaatgaa atagcaaat taagctaccg 960
gcatggtgct aataactgaa actaaaaatc ggttggag 998

```

```

<210> 127
<211> 838
<212> DNA
<213> Homo sapiens

```

```

<220>

```

<221> unsure
<222> (100)
<223> a, c, g or t

<220>
<221> unsure
<222> (112)
<223> a, c, g or t

<220>
<221> unsure
<222> (134)
<223> a, c, g or t

<220>
<221> unsure
<222> (151)..(152)
<223> a, c, g or t

<220>
<221> unsure
<222> (161)
<223> a, c, g or t

<220>
<221> unsure
<222> (164)
<223> a, c, g or t

<400> 127
agggcataaa cacttttagtt tgatcagtag aattgctatg ccatgttttaa atgggatttta 60
tttggttgat gcagaatata taattgtatc tagaagatan atattacaaa antatttttaa 120
tatacaattt ctgncatatt tttgggaaaag nncatttttg ngngcaaag tagaatcatt 180
gttgccaata gagtttagcat ctttgtgtgc ttgtgagggt tgattttgag ggttttcttg 240
gtttttgtttt gggttctgga gttctaaaaa atgagattgt ctttgtctaa acaatttttta 300
tataaaaatg tacatttttg tattattttt tcttattcca acctaatcgg tggcttgtcc 360
cttcctgtgt ttattgggct gttgggtgcc tggatagagc tggagaccat ttaactgctg 420
tatgaataat agataagcgt cttgaataac atctgaattt cctagggtatg tagaaacacc 480
caccatgcac atatatgaac atacagaata tatgaatgtt aaaatatggt gaaaacaatc 540
ttttgctaata agaagtgtta acctttattt ttaaaaaaaaaa tttggtgtgt atgtagaggt 600
ttatttgatt gtttagttgtg tccatgtata atatgtcatc tacctttaca gatgtgcaga 660
aatttgttgt atttggtgga tatattttac ttaaaactat agggcagaag ctttttatgt 720
ttgttgaagt gaaatggcat accaaacctg tgtggttagag tgggattttt agattgctgt 780
gtgtacagtc aggttatatc tttaaaatac ctattcgtta tatattaata tgtagaca 838

<210> 128
<211> 5542

<212> DNA
<213> Homo sapiens

<220>
<221> unsure
<222> (5379)
<223> a, c, g or t

<220>
<221> unsure
<222> (5382)
<223> a, c, g or t

<220>
<221> unsure
<222> (5391)..(5392)
<223> a, c, g or t

<400> 128
cacaaacccg gaagcggatc gcgtggagtg aaggctctac cacggcgcggt gagtttcgct 60
ctgccttgga ttaagtctgc acttcccagg tccccggcgc ttctgcccct gggacgtggg 120
atccccacgg acctggaaat tctcgcctgt cttcccttca cccagagcaa attgagacgt 180
cccgaggagaa gaccaaggca gcctattggg ccttccaggc aatcacatgg gaatcagcca 240
cacgtcattc ctctcacct cagaacatct cagaataact tggtgaaatg tctccactg 300
tgagcctcag tgagcccacc tgtaacatag aggcctcgcc cctgagctct acaatcctgt 360
gtccagttgt ctctcagct gtctcctggg tcatcaaacg ggcattccca ccttcagggtg 420
tccacgagtg gctttctaaa ccccaaaaca catttccttg cagtctgcac atctcagatg 480
agggtgacta cgtacttccg gaaacggccg aacttgacag catgtatttt aaatttgtga 540
aataaattac tttatttgta agtggtgtaa tttataatat aaagagaaac ttagatgtat 600
acgtgaaaag agtgagaaga tacatcactt ccaattttgt ttgtttgttt gtttttttga 660
gaggaatttt cactcttggt gctgaggctg gagtgcaatg ccatgatata agctcactgc 720
aacctctgac tcctgggatc aagggtattct ccttcctcag actcccgagt agctgggata 780
acagtcgact ttcaaaattc tttaaggatt gatttcctaa gactcatgtt atgtgaagaa 840
gcagctcaga agaggaaagg aaaggagcca ggcattggctc ttcctcaggg acgcttgact 900
ttcagggatg tggctataga attctcattg gcagagtggg aatgcctgaa cccttcgcag 960
agggtcttgt acagggaagt gatgttgagg aactacagga acctggaagc tgtggatata 1020
tcttccaaac gcatgatgaa ggaggtcttg tcaacagggc aaggcaatac agaagtgatc 1080
cacacaggga cattgcaaag atatcaaagt tatcacattg gagatttttg cttccaggaa 1140
attgagaaaag aaattcatga tattgagttt cagtgtcaag aagatgaaag aaatggccat 1200
gaagcaccca tgacaaaaat aaaaaagttg actggtagca cagaccaaca tgatcacagg 1260
catgctggaa acaagcctat taaagatcag cttggatcaa gcttttattc acatctgcct 1320
gaactccaca taattcagat caaaggtaaa attggtaatc aatttgagaa gtctaccagt 1380
gatgctccct cggtttcaac atcccaaaga atttctccta ggcccaaat ccatatttct 1440
aataactatg ggaataattc cccgaattct tcactactcc cacaaaaaca ggaagtatac 1500
atgagagaaa aatctttcca atgtaatgag agtggcaaaag cctttaattg tagctcactc 1560
ttaaggaaac accagatacc ccatttagga gacaaacaat ataaatgtga tgtatgtggc 1620
aagctcttta atcacagca ataccttaca tgccatcgta gatgtcacac tggagagaaa 1680
ccttacaagt gtaatgagtg tggaaagtcc ttcagtcagg tatcatccct tacatgccat 1740

cgtagacttc acactgcagt aaaatctcac aagtgtaatg agtgtggcaa gatctttggt 1800
 caaaattcag cccttgtaaat tcataaggca attcatactg gagaaaaacc ttacaagtgt 1860
 aatgaatgtg acaaagcttt taatcagcaa tcaaaccctg cacgtcatcg tagaattcat 1920
 actggagaga aaccttacaa atgtgaagaa tgtgacaaag ttttcagtcg gaaatcaacc 1980
 cttgagtcac ataagagaat tcatactgga gagaaacat acaaagttaa ggtttgtgac 2040
 acagctttca catggaattc tcagctggca agacataaaa gaattcacac tggagagaaa 2100
 acttacaagt gtaatgagtg tggcaagacc ttcagtcaca agtcatccct tgtatgccat 2160
 catagacttc atggtggaga gaaatcttac aaatgtaagg tctgtgacaa ggcttttgcg 2220
 tgggaattcac acctggtaag acatactaga attcatagtg gaggaaaacc ttacaagtgt 2280
 aatgaatgtg ggaagacctt tggcctaaaat tcagatcttc taattcataa gtcaattcat 2340
 actggagagc aaccttacaa atatgaagaa tgtgaaaagg ttttcagttg tggatcaacc 2400
 cttgagacac ataagataat tcacaccgga gagaaacat acaaagttaa ggtttgtgac 2460
 aaggcttttg cgtgtcattc ctatctggca aaacatacta gaattcatag tggagagaaa 2520
 ccttacaagt gtaatgagtg cagcaagacc ttccgtctga ggtcatacct tgcaagccat 2580
 cgcagagtcc atagtgtgga gaaaccttac aagtgtaatg agtgcagcaa gaccttcagt 2640
 cagaggtcat accttcattg ccacgtaga cttcatagtg gtgagaaacc ttacaagtgt 2700
 aatgagtggt gcaagacctt cagtcacaag ccaccccttg ttcaccatcg tagacttcat 2760
 actggagaga aatcttacaa atgtacggtt tgtgacaagg ctttcgtgcg taattcatac 2820
 ctggcaagac ataccagaat tcacactgca gagaaacctt acaagtgtaa tgaatgtggg 2880
 aaggctttta atcaacaatc acaactttca cttcatcata gaattcatgc tggggagaaa 2940
 ctttacaaat gtgaaacatg tgacaaagtt ttcagtcgca aatcacacct taaaagacat 3000
 aggagaattc atcctggaaa gaaaccatac aaatgtaagg tttgtgacaa gacttttggg 3060
 agtgattcac acctgaaaca acatactgga cttcacactg gagagaaacc ttacaagtgt 3120
 aatgagtggt gcaaagcctt tagcaagcag tcaacactta ttcaccatca ggcagttcat 3180
 ggtgtagggg aacttgacta atgtaatgat tgtcacaagg tcttcagtaa cgctacaacc 3240
 attgcaaadc attggagaat ctataatgaa taaagatcta acaagtgtaa taaatgtggc 3300
 aaatttttca gacatcattc atacattgca gttcattgac acactcatac tggagagaaa 3360
 ccttacaaat gtcattgact tggcaaggct ttcagtcaag cttcatccta tgcaaaacat 3420
 aggagaattc atacaggaga gaaacctcac atgtgtgatg attgtggcaa agcctttact 3480
 tcatgttcac acctcattag acatcagaga atccctactg gacagaaatc ttacaaatgt 3540
 cagaagtgtg gcaaggtctt gagtccgagg tcaactcctg cagaacatca gaaaattcat 3600
 ttttgagata actgttccca atgcagttag tatagcaaac catcaagcat taattgacac 3660
 tagagtcagt tcagcattga cttgagtttg acttaacatt gagttgaagc ctttaattgac 3720
 attaaagtgt ttatgttaag aggactgggc caggcacagt ggctcacacc tgtaatctga 3780
 gagctttggg aggccagcac cggtagatca cttgaaactc cagcctcaga tgatccacc 3840
 acctcggcct cccaaagtgc tgggattaca ggcgtgagcc tccgcacccg gccaaagatat 3900
 accattcaat gtagagatta ttcttacatg aaactgacct aaacaattta ataaaaatta 3960
 atttttactt ttaaataaaa atgtggggga ggggaacct ctccctctct aacatgacag 4020
 catatataca ttttaatatat aagcttaaat atgtgcaagt aatttgtctt ttacaatccc 4080
 agcaacacaa tgaagactaa gcaaagggga aagaacaatc tatcaacaaa agaaaaatgt 4140
 ctctatcctc tttatcaaca aactacatat ttacaaagtt gaaatgttat agaacaacta 4200
 tgataaacac agatatttaa tagtaaacc cagaaagcca cccacacaga gctcttaaaa 4260
 tcatattgcag ggttaagcat agtttaacaa agtgatgctt gcaatatatg cacgtccaca 4320
 ctgtctataa aacaaaaaaa aagctaaaga ggattgtaca gttgtctagt gatatccatc 4380
 ggggatttgt acctgtaccg tcccccata ccaaaatcgg tgcacctca actcccttag 4440
 ctcttcagaa cccatgggta tgaaaatgag gtgctcttta ctcggttttc agattctgcc 4500
 aatgctgtac tttccagctg catgtgcttg cagatgcaaa acccgagat aggagggttg 4560
 acatgacaac tgtacgtcac agagatgaaa tgacaaagta ttcaacatcc ttctccaagt 4620


```

ttgcccagct ggtcatcata taacgcccag actgcaggat gctgggatct acacctgcac 1200
gtgcccggaa cgtgggctggg tgtcctgaga ggctgatttc ccgctgtcgg atgggtcaggg 1260
gtcatcaggc atgcagccag catcagagag cagccccaat ggacaggctt tcccggcggc 1320
cgagtgcctg aagccccag acagtgagga ctgtggcgaa gagcagaccc gctggcactt 1380
cgatgcccag gccacaact gcctgacctt cacttcggc cactgccacc gtaacctcaa 1440
ccactttgag acctatgagg cctgcatgct ggctgcatg agcgggcccgc tggccgcgtg 1500
cagcctgccc gccctgcagg ggccctgcaa agcctacgcg cctcgctggg cttacaacag 1560
ccagacgggc cagtgccagt cctttgtota tgggtggctgc gagggcaatg gcaacaactt 1620
tgagagccgt gaggcctgtg aggagtctgt ccccttcccc agggggaacc agcgtgtcgt 1680
ggcctgcaag cctcggcaga agctcgttac cagcttctgt cgcagcgact ttgtcatcct 1740
gggcccagtc tctgagctga ccgaggagcc tgactcgggc cgcgccctgg tgactgtgga 1800
tgaggtccta aaggatgaga aaatgggcct caagtctctg ggccaggagc cattggagggt 1860
cactctgctt cactgtggact gggcatgccc ctgcccacac gtgaccgtga gcgagatgcc 1920
gctcatcatc atggggggagg tggacggcgg catggccatg ctgcgccccg atagctttgt 1980
gggcgcatcg agtgcccggc gggtcaggaa gcttcgtgag gtcatgcaca agaagacctg 2040
tgacgtcctc aaggagtctt ttggcttgca ctgaagcccc ccacctctcc ctgccccctc 2100
cctggccttc ttccacctat ccacccaat gcctctcagc aaactgggcg aggtcagatt 2160
agacaggctt gggacagcag ggaaacatca accgacgtgt cacagaaaaa gccacagaag 2220
gtctcagatc agcatctatt ctttgggttc aataaggggt tcatatcttt tttagctgag 2280
ggggacaaga ggagaagtca gtggacacat ggaagtact cgtgaccacc agcttgctca 2340
gatattctcc tctccccctc actggcccca caccctggc tctcccagtc accctcccct 2400
agccagtctc ccagcaaggg ttaagagat ggccgctgtg tgctggtcac aggaagtgtt 2460
gaatggattg gcttgcaaag gggtaggtg gggagagata ggagggccca gggactcatg 2520
ggacaccttt ccacagcct cctcgattgc tgtgagcaga ggccactcgg agttaggggc 2580
atgggcaata gcaagctggc ggagagctcc agcccagcat atgacttgcc ctgaatggaa 2640
gctgctgaaa cgggtgcctt tgggtggtgg tcggttgcc tctgaggcca ccacggcacc 2700
agcagaatac gtatttcttc tcttggctg cattggtttg tcgatctagt tcagttcaac 2760
tcagtggatg ttctctgaat gcttaactg tctggagttt ctgtctgatg gatggtgtgc 2820
tttcatatgc cactggcttc cttggacata gatcagacaa aagccccggg atctgcaatc 2880
tctctgagtc tctgtttcct catctgtctc ctgtctgccc tggatactca ctccctcacct 2940
tctctgcac 2948

```

<210> 130
 <211> 3063
 <212> DNA
 <213> Homo sapiens

```

<400> 130
caggtgtccc accgtgccag akacgctgcc taaactgctt ccagcttctt tttttttttt 60
cccccttctt gcaataagtc tgtgatcagc cacgggacag aggcgccagc agcctgcctg 120
tgacaggcat caggttagct ggctcccact cgggtggcgc gccaggata taaatccggg 180
cgcgggcccc tgctgtggct cctctccctg cacactcagg agaggagct tctttctaaa 240
gacctttctt ttatctgaag ccgcacagcc cggcaggctg tgctgacttg gtggaggcag 300
cagcggcaga gcagcctgag cagcagcctg agcaggaaac ctgctggggt ggggagggca 360
gggtgtctgca gccctgaga agaaggccct ggtgggcccc agaccctggc atcgtttcag 420
gggagggtctc tagcggcccc agcctgcacc atgtgggccc caaggtgtcg ccggttctg 480
tctcgctggg agcagggtggc agcgtgtctg ctgctgtctg tactgctcgg ggtgcccccg 540

```



```

cgaagcctgg cgctgccgcc catccgctat tcccacgccg gcattctgccc caacgacatg 600
aatcccaacc tctgggtgga cgcacagagc acctgcaggc gggagtgtga gacggaccag 660
gagtgtgaga cctatgagaa gtgtgctccc aacgtatgtg ggaccaagag ctgctgtggcg 720
gcccgtctaca tggacgtgaa agggagaag ggcccagtgg gcattgccc aaaggccaca 780
tgtgaccact tcatgtgtct gcagcagggc tctgagtgtg acattctggga tggccagccc 840
gtgtgtaagt gcaaagaccg ctgtgagaag gagccagct ttacctgccc ctgagcaggc 900
ctcacctact ataaccgctg ctacatggat gccgaggcct gctccaaagg catcacactg 960
gccgttgtaa cctgccgcta tcacttcacc tggcccaaca ccagccccc agcacctgag 1020
accaccatgc accccagcac agcctcccca gagacccttg agctggacat ggcggtcctt 1080
gcgtgtctca acaaccgtgt gcaccagtgc gtcaccatgg gtgagacagt gaggtttcctc 1140
tgtgatgtgg tgggcccggc ccggcctgag atcacctggg agaagcagtt ggaggatcgg 1200
gagaatgtgg tcatgcccgc caacctatgt cgtggcaacg tgggtgtcac caacattgcc 1260
cagctggtca tcatataacg cccagactgc aggatgctgg gatctacacc tgcacgtgcc 1320
cggaacgtgg ctgggtgtcc tgagaggctg atttcccgtc gtcggatggg caggggtcat 1380
caggcatgca gccagcatca gagagcagcc ccaatggcac ggctttccc ggcggccgagt 1440
gcctgaagcc cccagacagt gaggactgtg gcgaagagca gaccgcctgg cacttcgatg 1500
cccaggccaa caactgcctg accttcacct tcggccactg ccaccgtaac ctcaaccact 1560
ttgagaccta tgaggcctgc atgtgtgccc gcatgagcgg gccgctggcc gcgtgcagcc 1620
tgcccgcctt gcaggggccc tgcaaagcct acgcgcctcg ctgggcttac aacagccaga 1680
cgggcccagt ccagtccttt gtctatgggt gctgcgaggg caatggcaac aactttgaga 1740
gccgtgaggc ctgtgaggag tcgtgcccct tcccagggg gaaccagcgc tgtcgggcct 1800
gcaagcctcg gcagaagctc gttaccagct tctgtcgcag cgactttgtc atcctgggccc 1860
gagtctctga gctgaccgag gagcctgact cgggcccgc cctggtgact gtggatgagg 1920
tcctaaagga tgagaaaatg ggctcaagt tcctgggcca ggagccattg gaggctactc 1980
tgcttcacgt ggactgggca tgcccctgcc ccaacgtgac cgtgagcgag atgccgtca 2040
tcatcatggg ggagggtggc ggccgcatgg ccattgctcg ccccgatagc tttgtgggcg 2100
catcgagtgc ccgcccgggc aggaagcttc gtgagggtcat gcacaagaag acctgtgacg 2160
tcctcaagga gtttcttggc ttgactgaa gccccccacc cctccctgcc ccctccctgg 2220
ccttcttcca cctatccacc ccaatgcctc tcagcaaact gggcgaggtc agattagaca 2280
ggcttgggac agcagggaaa catcaaccga cgtgtcacag aaaaagccac agaagggtctc 2340
agatcagcat ctattctttg ggttcaataa ggggttcata tcttttttag ctgaggggga 2400
caagaggaga agtcagtggc cacatggaag ttactcgtga ccaccagctt gctcagatat 2460
tctcctcctc cctcactgg cccacacccc ctggctctcc cagtcaccct cccctagcca 2520
gtctcccagc aagggtttta gagatggccg ctgtgtgctg gtcacaggaa gtgttgaatg 2580
gattggcttg caaagggggg aggtggggag agataggagg gccagggac tcatgggaca 2640
cctttcccac agcctcctcg attgctgtga gcagaggcca ctcgaggtta ggggcatggg 2700
caatagcaag ctggcggcag agtccagccc agcatatgac ttgccctgaa tggagctgc 2760
tgaaacgggt gcctttgggt ggtggtcggc ttgctctga ggccaccacg gcaccagcag 2820
aatacgtatt tcttctcctt ggctgcattg gtttgcgat ctagttcagt tcaactcagt 2880
ggatgttctc tgaatgctta aactgtctgg agtttctgtc tgatggatgg tgtgctttca 2940
tatgccactg gcttccttgg acatagatca gacaaaagcc ccgggatctg caatctctct 3000
gagtctctgt ttcctcatct gtctcctgtc tgccctggat actcactcct caccttcctg 3060
cac
3063

```

<210> 131

<211> 904

<212> DNA

<213> Homo sapiens

<400> 131

```
ggagggccag gactcatggg acacctttcc cacagcctcc tcgattgctg tgagcagagg 60
ccactcggag ttaggggcat gggcaatagc aagctggcgg cagagtccag cccagcatat 120
gacttgccct gaatggaagc tgctgaaacg ggtgcctttg ggtgggtggc ggcttgccctc 180
tgaggccacc acggcaccag cagaatacgt atttcttctc cttggctgca ctggtttgctc 240
gatctagtct agttcaactc agtggatggt ctctgaatgc ttactgggtg ccaggaccac 300
agagagatgt tagtcaactc ccagttctta gagccccaac acagataccc tcatcccagg 360
gccccagac acaccctctc gctggactca caactgtctg gagtttctgt ctgatggatg 420
gtgtgctttc atatgccact ggcttccttg gacatagatc agacaaaagc cccgggatct 480
gtttggtagc aggagaaatg aaggaagatg aaaaagcagg caggggaaggg ggtagtaaag 540
gactgagaga ggagggaggt ggctggagaa ggaaaaggaa cattgctcga tgctcccatc 600
tggtggcggc ctcaggaacc cacgggaacc tggaaggagg ctctttgtga gacctgggca 660
aaggatgggg cagctcgtcg atgatttttt tgtgtttcca ggcttcctgt gtgatcctgg 720
ccctccggcc gctagagaga ggattgggaa accccactgt cagctctgca tctgccccca 780
ctaccctcct ctgccctatt ctgtccctgc ccctccaagc tgaagaaggc ccttggtggg 840
cgtcttcatt tcttctctca atataaggag gaagatacca attaaaagct catagtatca 900
atgc 904
```

<210> 132

<211> 442

<212> DNA

<213> Homo sapiens

<220>

<221> unsure

<222> (393)

<223> a, c, g or t

<400> 132

```
cactaccata gtggggaggg gtattcataa ctgttgggca tgccaggaaa ttcaggttcc 60
ccaggtagtc tacactggaa atatgggagg agccttggtta ccacctgata gagatgaaag 120
tcccaggtag ctactcaatc tctgtaacac cccagcagga aagttagggg aacttggttag 180
aggctgggtg ggggtggcacc ccactcagcc tatgctggca taggcagagg tggggacaca 240
gttctttctg tgggtgtttag ctggagtaga acagttacag tatacaagtt ttctgtctta 300
ctaggttgcc cctttcctgg tctttttgct aaggagagga ggctttatct atttattatt 360
tctatttttg tcttactcac tggcattctg ggntgctggg tcttcagctc caagtctgag 420
atatatggat ccaaaagaaa ac 442
```

<210> 133

<211> 530

<212> DNA

<213> Homo sapiens

<400> 133

```

aatggtcaag aaactttgca tgttaagaaa gtttaagctt tgaaaccttg gaacaacaac 60
tatcatttca catgactcct caccttaaat catctaattg accatgaata ggtgctttgg 120
tcaatattaa atctagaaac atagatatag tatactctga tattaactag gaattataaa 180
tggtataaac tcttgtaa atgttccattt aaaaatattg tgaaactaaa atgattaata 240
cattaaataa atcaaaaattg tatattttta gtctggaagt gcattttcat attccaatta 300
taagtgtgta ttaagcgact gttttcctaa atgtcattat tttatatgaa aaatgccttc 360
attgtctgaa agcatttttac tgagttccga gggttgtgat tggacaaaac tgagcacaat 420
tttctcatct gcaaaataatt tactgcta atgttgtgtaa gttagcta taaataatta 480
ttgtataaaa cgaaatataa tttggtggaa aacgctaacc tggcagatta 530

```

```

<210> 134
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> unsure
<222> (289)
<223> a, c, g or t

```

```

<400> 134
gctcgaggct gctaacagag aagcccctca tcctgtacga ccagtgcaga gaaacgatcc 60
cctcgaatgc ttcttagtgg agttaagaaa tttttgttg atcgtgcctt tgaactaagg 120
tcattttaagt atacaacaga tgttcctctg agggaaacag acttataaag tcaggaacac 180
agaagggacc taatgggttta ctaggggtgg cgcattaagt tcatagcaat ttaactcctt 240
tcaatgctaa acaaaacaat gacgcaattt gatgcgcaat aaaaacttnt caaaacaatc 300

```

```

<210> 135
<211> 696
<212> DNA
<213> Homo sapiens

```

```

<400> 135
cttagaatct ttctctgcag caggctcggt tttctcctca aattcctctg tgtttggtta 60
agaacaatct gtttttccta cacttgtcaa gttgctcgaa attcctaattg cccattcatg 120
ttctttccaa ggattagcag agcactcctc gcttgtcttt catcacactc cctccgcaca 180
tggggtaaaa attacatttg agtggaaccc tggctatcga tgctgtgtaa atggagaact 240
ttggcgagac tcaacttcccc gggcctcaagt gggaaacagg cctgaaaaac aggcctgagc 300
atctttaatg atgtgcagaa agagaggggc ctctgcccc acgggcagat gtacacagct 360
gctaacagag aagcccctca tcctgtacga ccagtgcaga gaaacgatcc cctcgaatgc 420
ttcctagtgg agttaagaaa tttttgttg atcgtgcctt tgaactaagg tcattttaagt 480
atacaacaga tgttcctctg agggaaacag acttataaag tcaggaacac agaagggacc 540
taatgggttta ctaggggtgg cgcattaagt tcatagcaat ttaactcctt tcaatgctaa 600
acaaaacaat gacgcaattt gatgcgcaat aaaaacttgt caaaacaatc aaaaaaaaaa 660
aaaaaaaaaa aaaaaaattc tgcgctcgca agaata 696

```

<210> 136
 <211> 376
 <212> DNA
 <213> Homo sapiens

<400> 136
 agtctctctaaa aatctttgcca taggattttgg tctatacttt taaaaaccac tctttttttca 60
 tgataaagcc cttcaacttg ctctaaaagg caacatagga agagagagac gatgcaggcc 120
 agtcctctcc aaataaggca aaacccagct ttattttttag taatgacttt cccaactgca 180
 agagggcaca agtccatgat ccagcattac agaaaccac caacttccag aaaagtttca 240
 acaactcata aagactcaca tgtgcatgca gacacaaaga cccatttttag ggaagaggcc 300
 ccaagacata gtctgaagcc ccagctgggc actttttctcc atgacaactc ttcagccagc 360
 ctgggacagt gcaacc 376

<210> 137
 <211> 1141
 <212> DNA
 <213> Homo sapiens

<400> 137
 ttggcacgag gagtctctaa aaatcttgcc ataggatttg gtctatactt ttaaaaacca 60
 ctcttttttc atgataaagc ctttcaactt gctctaaaag gcaacatagg aagagagaga 120
 cgatgcaggc cagtcctctc caaataaggc aaaacccagc tttattttta gtaatgactt 180
 tcccaactgc aagagggcac aagtccatga tccagcatta cagaaacca ccaacttcca 240
 gaaaagtttc aacaactcat aaagactcac atgtgcatgc agacacaaag acccatttta 300
 gggaagaggc cccaagacat agtctgaagc ccagctggg gccctttctc catgacaact 360
 cttcagccag cctggacagt gcaacccttg agtaacccca gctttgctta actgggacaa 420
 cccacctctc ctcatcctcc tggagaaatg cagttttgta ttttctgat gtttgatggg 480
 ccgcacatca gaggatcctc gaaagtcata ttccctggga aatctgacca aaccgtaaga 540
 acgaaaagac tattggctaa ctttgtggag accactgaga gctcagtcct cagcagagga 600
 gctggaggga aagagacatt ggaatacttc actgtgattg tccacgccgt cattctcttc 660
 atctgtataa actgtggctg gttcacttta accctgagca ggagctgcct atgaaagagg 720
 atggctggag tcagatgcct gggcactctt ctgggtcaagt cgggagctct cagtgcctgc 780
 tgactcatct gtaaaatggg gataacgtca ggatgagcta ataacgcgga agccagaaag 840
 gctgatgcca tctctgtttc caatatgatt tttatggcct ccaagatggg gtccttagaa 900
 tctttctctg cagcaggctc gtttttctcc tcaaattcct ctgtgtttgg ctaagaacaa 960
 tctgtttttc ctacacttgt caagttgctc gaaattccta atgcccattc atgttctttc 1020
 caaggattag cagagcactc ctgccttgctc tttcatcaca ctccctccgc acatggggta 1080
 aaaattacat ttgagtggaa ccctggctat cgatgcctgt aaaatggaga ctttggcgag 1140
 a 1141

<210> 138
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 138

Met Gly Tyr Tyr Val Ser Asp Val Leu Leu Asp Leu Val Phe
1 5 10

<210> 139

<211> 18

<212> PRT

<213> Homo sapiens

<400> 139

Met Phe Leu Ser Ser Val Leu Tyr Cys Ser Leu Leu Ser Tyr Leu His
1 5 10 15

Leu Ser

<210> 140

<211> 449

<212> PRT

<213> Homo sapiens

<400> 140

Leu Phe Pro Arg Leu Glu Tyr Gly Gly Thr Ile Leu Ala Tyr Cys Asn
1 5 10 15

Leu His Leu Pro Gly Ser Ser Asn Pro Pro Thr Ser Ala Ser Gln Val
20 25 30

Ala Gly Thr Arg Asp Val Cys His His Thr Trp Leu Val Cys Val Cys
35 40 45

Val Cys Val Cys Val Cys Val Cys Val Cys Val Glu Met Arg Phe His
50 55 60

Tyr Val Ser Gln Ala Gly Leu Glu Leu Leu Ser Ser Ser Asp Pro Pro
65 70 75 80

Ile Ser Ala Ser Gln Ser Ala Gly Ile Ile Gly Ile Ser His Cys Thr
85 90 95

Trp Pro Trp His Asp Ser Phe Ile Ser Pro Gly Ala Glu Leu Pro Thr
100 105 110

Phe Ala Tyr Thr Trp Pro Gly Arg Pro Lys Ile Pro Leu Thr Ile Leu
115 120 125

Leu Leu Tyr Pro Gly Pro Gly Asp Val Leu Val Ala Phe Arg Thr Glu
 130 135 140

Leu Tyr Tyr Ala Ser Pro Ser Arg Gln Pro Gly Ala Ser Asp Thr Ala
 145 150 155 160

Arg Glu Ser Trp Gly Asn Gly Ala Val Pro Asp Phe Leu His Lys Glu
 165 170 175

Trp Leu Ile Phe Cys Pro Phe Ser Asn Gln Ser His Leu Trp Thr Thr
 180 185 190

Lys Ser Lys Trp Ala Glu Val Pro His Pro Gly Arg Arg Ala Glu Leu
 195 200 205

Pro Ala Met Lys Glu Gln Lys Ala Ala Asn Glu Asn Ser Gly Ser Val
 210 215 220

Thr Glu Pro Ser Ser Ser Ala Ser Ile Leu His Ala Arg Trp Asp Val
 225 230 235 240

Tyr Phe Leu Ile Asn Ala Leu Ile Tyr Phe Leu Arg Gln Ser Leu Arg
 245 250 255

Ser Val Ala Gln Ala Gly Val Gln Trp Cys Ser Gly Ala Asp Leu Gly
 260 265 270

Ser Leu Gln Pro Leu Pro Pro Gly Phe Lys Ala Phe Pro Cys Leu Ser
 275 280 285

Leu Leu Ser Ser Trp Asp Tyr Arg Ser Leu Pro Pro Cys Pro Ala Asn
 290 295 300

Phe Phe Val Phe Leu Ile Glu Thr Gly Phe His His Ile Ser Gln Ile
 305 310 315 320

Ser Ile Ser Ala Pro Cys Asp Pro Pro Ala Ser Ala Ser Gln Ser Ala
 325 330 335

Gly Ile Thr Gly Met Ser His Cys Ala Gln Pro Asp Val Tyr Tyr Tyr
 340 345 350

Val Ser Gly Tyr Ile Gly Lys Gln Asp Arg Cys Tyr Leu Phe Phe Phe
 355 360 365

Phe Phe Phe Phe Glu Thr Glu Ser Arg Thr Val Ala Gln Ala Gly Arg
 370 375 380

Leu Glu Arg Ser Gly Ala Ile Ser Thr Arg Arg Ser Leu Gln Pro Leu
 385 390 395 400

Pro Pro Gly Leu Lys Arg Phe Ser Cys Leu Ser Leu Leu Ser Ser Trp
 405 410 415

Asp Tyr Arg Cys Thr Pro Pro Arg Leu Ala His Phe Cys Thr Phe Ser
 420 425 430

Arg Asp Gly Val Ser Pro Cys Trp Ser Gly Trp Ser Leu Ser Pro Asp
 435 440 445

Leu

<210> 141
 <211> 11
 <212> PRT
 <213> Homo sapiens

<400> 141
 Met Ile Ala Ile Phe Leu Ser Phe Leu Phe Phe
 1 5 10

<210> 142
 <211> 40
 <212> PRT
 <213> Homo sapiens

<400> 142
 Met Asp Ala Lys Gln Asn Val Glu Lys Thr Tyr Cys Pro Ala Leu Ser
 1 5 10 15

Gly Ser Phe Gln Asp Ser Met Ile Tyr Trp Glu Arg Ser Asn Ser Leu
 20 25 30

Pro Leu Pro Ala Thr Cys Lys Pro
 35 40

<210> 143
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 143

Met Asp Gly Phe Val Lys Asp Gln Ala Thr Ser Ser Leu Pro Leu Ala
1 5 10 15

Thr

<210> 144

<211> 24

<212> PRT

<213> Homo sapiens

<400> 144

Met Ala Ser Lys Pro Asn Leu Leu Tyr Ile Leu His Tyr Cys Val Pro
1 5 10 15

Asp Thr Ala Asn Ser Ile Asn Glu
20

<210> 145

<211> 20

<212> PRT

<213> Homo sapiens

<400> 145

Met Ser Cys Ser Ser Ser Thr Gly Ala Gly Lys Tyr Asn Leu Lys Gly
1 5 10 15

Glu Ala Asn Leu
20

<210> 146

<211> 107

<212> PRT

<213> Homo sapiens

<400> 146

Tyr Tyr Phe Tyr Tyr Tyr Phe Phe Leu Arg Glu Ser Leu Thr Leu Ser
1 5 10 15

Leu Gly Leu Glu Cys Ser Gly Val Thr Met Ala His Gln Thr Ile Asn
20 25 30

Ile Pro Gly Ser Ser Asn Ser Pro Val Val Val Gly Thr Thr Gly Ala
35 40 45

Cys His Asn Ala Trp Leu Ile Phe Val Phe Leu Val Glu Thr Gly Leu
50 55 60

His His Val Gly Gln Ala Gly Leu Gly Leu Leu Ala Ser Ser Asp Leu
65 70 75 80

Ser Ala Leu Ala Ser Pro Ser Ala Gly Ile Ile Gly Leu Ser His Cys
85 90 95

Thr Gln Gln Lys Thr Asn Phe Leu Lys Gln Asn
100 105

<210> 147

<211> 18

<212> PRT

<213> Homo sapiens

<400> 147

Met Arg Ser Asn Phe Lys Lys Asn Ile Pro Ser Leu Glu Leu Phe Asn
1 5 10 15

Met Ser

<210> 148

<211> 99

<212> PRT

<213> Homo sapiens

<400> 148

Leu Phe Ser Phe Ala Arg Gln Asp Val Ser Met Leu Pro Arg Leu Glu
1 5 10 15

Tyr Ser Gly Gly Ile Ile Ala His Cys Lys Leu Asp Val Leu Asp Ser
20 25 30

Ser Glu Leu Thr Ala Leu Thr Ser Gln Ile Ala Gly Thr Thr Gly Val
35 40 45

His His His Ala Arg Leu Ile Phe Thr Met Phe Met Gln Met Gly Ser
50 55 60

Cys Ser Val Ala Gln Ala Cys Leu Lys Leu Leu Ala Ser Asp Asp Pro
65 70 75 80

Pro	Ala	Phe	Gly	Ser	Gln	Ser	Ala	Gly	Ile	Ala	Asp	Val	Ala	His	His
				85					90					95	

Ala Gln Pro

<210> 149
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 149															
Met	Ser	Val	Ser	Val	Leu	Pro	Val	Gln	Pro	Pro	Thr	Gly	Leu	Leu	Trp
1				5					10					15	

Gly	Arg	Ser	Pro	Pro	Gly	Ser	Pro	Ala	Glu	Leu	His	Gly	Leu	Pro	Cys
			20					25					30		

Leu	Thr	Arg	Asp	Asn	Arg	Asp	Phe	Gly	Ser	Pro	Ser	Ala	Asp	Ala	Phe
		35					40						45		

Val	Leu	Phe	Leu	Ile	Arg	Ser	Arg	Thr	Arg	Val	Gly	Arg	Arg	Val	Met
	50					55					60				

<210> 150
 <211> 23
 <212> PRT
 <213> Homo sapiens

<400> 150															
Met	Val	Glu	Ser	Gly	Ile	Glu	Pro	Glu	Asn	Ser	Asp	Ser	Arg	Leu	Ser
1				5					10					15	

Cys	Phe	Ser	His	Arg	Ala	Val
			20			

<210> 151
 <211> 27
 <212> PRT
 <213> Homo sapiens

<400> 151

Met Ile Gln Arg Leu Leu Arg Gly His Asn Cys Ile Ser Ile Pro Asn
 1 5 10 15

Leu Phe Tyr Asn Glu Arg Ile Tyr Arg Ile His
 20 25

<210> 152
 <211> 26
 <212> PRT
 <213> Homo sapiens

<400> 152
 Met Pro Ser Ala Trp Lys Val Glu Asp Ser Gly Ile Arg Glu Arg Phe
 1 5 10 15

Arg Pro Gly Glu Met Glu Gly Ser Gly Thr
 20 25

<210> 153
 <211> 16
 <212> PRT
 <213> Homo sapiens

<400> 153
 Met Gln Val Trp Ser Gly Ile Phe Pro Asp Arg Gly Cys Cys Ser Cys
 1 5 10 15

<210> 154
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 154
 Met Phe Met Trp His Arg Val Ala Asn Cys Leu Ser Leu Phe Val Ser
 1 5 10 15

Gln Asn Asp Phe Ala Asp Val Leu Gly Gln Ala Ser Pro Gly Trp Gln
 20 25 30

Pro Gly Ala Ala Val Lys Phe Ser Leu Thr Asn Ser Leu Pro Pro Phe
 35 40 45

Pro His His Gly Thr Leu Val Leu Cys Val Thr Thr Val
 50 55 60

<210> 155
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 155
 Met Pro Cys Trp Lys Leu Leu Met Asn Arg Ala Trp Ser Leu Thr Leu
 1 5 10 15
 Gly Gly Gln Val Ile Tyr Arg Gly Asn Asp Asn Val Asn Pro Gly Pro
 20 25 30
 Trp Gly Ala Gly Ser Val Val Lys Glu Thr Gln His Thr Gln Gly Trp
 35 40 45
 Asp Pro Thr Gln Ala Lys Glu Gly Ser Thr Pro Ser Pro Asp Val Cys
 50 55 60
 Trp Asn Lys Glu Lys
 65

<210> 156
 <211> 51
 <212> PRT
 <213> Homo sapiens

<220>
 <221> UNSURE
 <222> (7)

<400> 156
 Met Lys Lys Lys Arg Phe Xaa Tyr Asn Ile Lys Ile Leu Val Asn Ser
 1 5 10 15
 Trp Leu Glu Leu Tyr Ser Glu Ile Thr Val Phe Lys Lys Asp Arg Pro
 20 25 30
 Leu Pro Leu Ser Leu Trp Leu Met Ala Leu Ile Ile Thr Arg Ile Pro
 35 40 45
 Lys Met Ser
 50

<210> 157
 <211> 126

<212> PRT
<213> Homo sapiens

<400> 157

Met Lys Leu Leu Ser Arg Lys Met Trp His Ser Leu Leu Gly Gly Gly
1 5 10 15

Trp Gly Gly Gly Lys Arg Glu Gly Arg Cys Pro Gln Leu Pro Pro Arg
20 25 30

Ser Ile Asn Lys Lys Arg Ile Asp Pro Pro Ala Pro Phe Asn Ser Pro
35 40 45

Pro Glu Leu Pro Pro Asn Ser Val Lys Thr Cys Gly Phe Asp Tyr Ser
50 55 60

Asp Glu Asn Asn Gly Cys Ser Val Glu Ile Cys Arg Ala His Thr His
65 70 75 80

Met Ile Ser Lys Ser Asn Ser Val Ala Thr Val Pro Ile Arg Lys Thr
85 90 95

His Gln Ala His Lys Arg Asp Pro Phe Ile Gln Arg Ser Leu Cys Ile
100 105 110

Pro Ile Ser Thr His Ser Thr Cys Ile Phe Lys Pro Ile Ser
115 120 125

<210> 158
<211> 84
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (21)

<220>
<221> UNSURE
<222> (35)

<220>
<221> UNSURE
<222> (45)

<220>
<221> UNSURE

<222> (48)

<220>

<221> UNSURE

<222> (52)

<220>

<221> UNSURE

<222> (58)

<220>

<221> UNSURE

<222> (61)

<400> 158

Met Lys Arg Pro Pro Val Leu Leu Gln Glu Lys Pro Pro Glu Gly Asn
1 5 10 15

Gly Ala Val Ala Xaa Trp Pro Val Val Thr Pro Arg Arg Gly Arg Gly
20 25 30

Gln Gly Xaa Leu Gly Pro Gln Asn Ile Val Pro Val Xaa Ser Phe Xaa
35 40 45

Ala Gly Leu Xaa Leu Leu Arg Ser Leu Xaa Gly Ser Xaa Leu Asn Ser
50 55 60

Leu Leu Ser Ala Ser Trp Ala Val Val Ser Gly His Arg Leu Leu Leu
65 70 75 80

Thr Ser Pro Pro

<210> 159

<211> 23

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (20)

<400> 159

Met Asp Ser Ala Lys Leu Gly His Ile Cys Tyr Thr Asp Asp Thr Ser
1 5 10 15

Leu Asp Val Xaa Ala Gln Thr

<210> 160
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 160
 Met Ile Asn Phe Ala Phe Val Val Cys His Lys Thr Thr Val Thr Val
 1 5 10 15
 Ser Leu Gln Leu Lys Ile Ile Gly Tyr Ala Thr Pro Glu Gly Asn Gln
 20 25 30
 His Ser Lys Cys Ile Pro Ser Ile Val Phe Ile Ile Cys Glu Arg Met
 35 40 45
 Ser His
 50

<210> 161
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 161
 Met Met Pro Thr Asp Asn Leu Leu Met Ile Ser Ser Ile Leu Lys Asp
 1 5 10 15
 Val Cys Lys Thr Gln Pro Leu Arg Lys Asp Ser Tyr His Cys Ser His
 20 25 30
 Arg His Pro Pro Gln Ser Tyr Thr Phe Pro Phe His Pro Pro Lys Gln
 35 40 45
 Ile Ile Gln His Ile Tyr Phe Ile Leu
 50 55

<210> 162
 <211> 10
 <212> PRT
 <213> Homo sapiens

<400> 162
 Met Gly Ser Glu Arg Gly Ile Cys Gly Tyr

1 5 10

<210> 163
<211> 39
<212> PRT
<213> Homo sapiens

<400> 163
Met Leu Ser Arg Ser Ile Gln Asn Phe Asn Phe Lys Pro Ser Ser Arg
1 5 10 15
Ser Leu Leu Cys Tyr Leu Pro Ser Arg Pro Thr Thr Pro Val Ile Gln
20 25 30
Leu Ile His Ala Gln Ile Leu
35

<210> 164
<211> 77
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (4)

<400> 164
Met Ala Lys Xaa Trp Leu Val Gly Asp Val Lys Arg Arg Pro Pro Asp
1 5 10 15
Gly Thr Ile Ser Gln Cys Gly Ala Pro Arg His Trp Ser His Ile Ala
20 25 30
Asn Ser Asn Pro Gly Pro Ala His Gly Leu Trp Val Met Leu Ile Thr
35 40 45
Tyr Phe Pro Arg Leu Leu Phe Pro Ser Cys Lys Val Trp Ile Thr Ile
50 55 60
Ala Pro Val Ser Pro Gly Cys Gly Glu Asp Tyr Met Ser
65 70 75

<210> 165
<211> 72
<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (10)..(30)

<400> 165

Met Leu Ile Leu Ile Ala Ser Lys Phe Xaa Xaa Xaa Xaa Xaa Xaa Xaa
1 5 10 15

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Ile Ala
20 25 30

Ser Ser Leu Val Ser Ser Leu Asp Leu Asn Glu Asn Ile Ser Val Tyr
35 40 45

Phe Thr Thr Lys Tyr Glu Leu Ala Ser Gly Cys Ala Leu Phe Tyr Phe
50 55 60

Tyr Thr Glu Cys Phe Lys Thr Asn
65 70

<210> 166

<211> 57

<212> PRT

<213> Homo sapiens

<400> 166

Met Ser Cys Ser Val Leu Leu Arg Lys Cys Tyr Asn Arg Ala Asp Gln
1 5 10 15

Phe His His Val Phe Ile Ile Thr Ile Leu Arg Trp Ala Leu Asn Thr
20 25 30

Ala Gln Gln Ala Cys His Phe His Leu Ile Ser Ser Ala Thr His Phe
35 40 45

Leu Leu Glu Leu Ala Ser Ser Asn Leu
50 55

<210> 167

<211> 121

<212> PRT

<213> Homo sapiens

<400> 167

Met Thr Pro Leu Leu Pro Gly Gly Glu Gln Leu Arg Glu Asn Trp Arg
 1 5 10 15

Ala Gln Thr Thr Gln Leu Gly Arg Gly Gly Gly Leu Met Glu Pro Arg
 20 25 30

Ala Leu Arg Ala Ser Pro Gly Ser Ser Pro Pro Ala Pro Pro Leu Pro
 35 40 45

Glu Ser Pro Ser Leu Ser Trp Cys Ala Gly Arg Thr Cys Ala Ala Ala
 50 55 60

Ala Gly Gly Gly Cys Thr Ser Gly Arg Glu Leu His Ala His Trp Glu
 65 70 75 80

Gln Pro Met His Arg Pro Pro Arg Cys Ala Gln Val Ser Gly Ala Ser
 85 90 95

Gly Lys Glu Glu Lys Ala Ala Val Ser Ala Leu Ser Leu Ser Leu Met
 100 105 110

Pro Val Trp Asn Pro Thr Asp Glu Leu
 115 120

<210> 168
 <211> 17
 <212> PRT
 <213> Homo sapiens

<400> 168
 Met Gly Glu Val Val Tyr Leu Phe Lys Val Pro Cys Leu Val Tyr Thr
 1 5 10 15

His

<210> 169
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 169
 Met Ser Asn Tyr Tyr Ser Phe Ile Ile Asn Leu Asn Ser Phe Gln Ile
 1 5 10 15

Arg Ala Thr Pro Ser Pro Cys Pro Leu Phe Gln Glu Tyr Phe Gly Ser

20

25

30

Ser Trp Phe Phe Val Ser Pro Tyr Asp Asp Phe Thr Ile His Leu
 35 40 45

<210> 170

<211> 33

<212> PRT

<213> Homo sapiens

<400> 170

Met Lys Ala Ile Gln Ile Glu Glu Phe Phe Ala Ser Leu Leu Thr Gly
 1 5 10 15

Pro Gly Val Leu Asp Asn Phe Leu Ser Lys Glu Glu Lys Asn Ile Phe
 20 25 30

His

<210> 171

<211> 49

<212> PRT

<213> Homo sapiens

<400> 171

Met Asp Ala Cys Leu Gly Asp Cys Gln Pro Gln Gly Arg Ser Ile Asp
 1 5 10 15

Leu Lys Tyr Glu Gln Thr Asp Asp Phe Ile Ile Met Thr Leu Ala Gln
 20 25 30

Asn Arg Asn Phe Gly Thr Glu Lys Asn Lys His Met Glu Phe Leu Lys
 35 40 45

Gly

<210> 172

<211> 56

<212> PRT

<213> Homo sapiens

<400> 172

Met Ser Leu Lys His Asn Asn Ile Ile Phe Tyr Ser Gln Glu Glu Leu

1 5 10 15

Ile His Asp Arg Ile Ile Ser Leu Ala Ile Leu Tyr Ser Tyr Phe Val
20 25 30

Leu Phe Ser Ser Phe Pro Leu Pro Phe Asp Asp Gln Phe Leu Tyr Lys
35 40 45

Thr His Arg Tyr Ile Pro Phe Ile
50 55

<210> 173

<211> 79

<212> PRT

<213> Homo sapiens

<400> 173

Met Gly Glu Ile Gln Val Asp Leu Asn Cys His His Gln Ser Arg Pro
1 5 10 15

Arg Arg Arg Leu Leu Ser Arg Met Tyr Thr Trp Pro Leu Phe Ala Val
20 25 30

Ala Val Leu Leu Leu Arg Gly Glu Pro Ile Tyr Val Cys Leu Phe
35 40 45

Leu Leu Ser Leu Ala Ala Gln Gln Asn Pro Val Ile Tyr Met Asn Lys
50 55 60

Phe Leu Glu Val Lys Arg Asp Glu Lys Phe Thr Lys Ser Pro Thr
65 70 75

<210> 174

<211> 30

<212> PRT

<213> Homo sapiens

<400> 174

Met Val Leu Lys Gly Met Asn Ile Thr Glu Ile Glu Cys Phe Leu Gln
1 5 10 15

Val Glu Arg Leu His Ser Leu Ala Gly Thr Phe Cys Pro Ile
20 25 30

<210> 175

<211> 73
<212> PRT
<213> Homo sapiens

<400> 175
Met Ala Gly Ala Gly Gly Gln His His Pro Pro Gly Ala Ala Gly Gly
1 5 10 15
Ala Ala Ala Gly Ala Gly Ala Ala Val Thr Ser Ala Ala Ala Ser Ala
20 25 30
Gly Pro Gly Glu Asp Ser Ser Asp Ser Glu Ala Glu Gln Glu Gly Pro
35 40 45
Gln Lys Leu Ile Arg Lys Val Ser Thr Ser Gly Gln Ile Arg Thr Lys
50 55 60
Gly Phe Ile Met Leu Ala Arg Leu Val
65 70

<210> 176
<211> 33
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (22)

<400> 176
Met Glu Ile Trp Leu Leu Ala Leu Ala Phe Lys Lys Leu Ser Arg Arg
1 5 10 15
Phe Tyr Val Gln Pro Xaa Leu Gly Thr Thr Val Leu Gly Asn Ile Arg
20 25 30
Arg

<210> 177
<211> 22
<212> PRT
<213> Homo sapiens

<400> 177
Met Leu Phe Ser Ile Leu Pro His Lys Gly Tyr Ile Leu Lys Asp Ile

1

5

10

15

Trp Leu Leu Asn Leu Asn

20

<210> 178

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (21)

<400> 178

Met Leu Leu Lys Gly Ser Asn Ser Lys Val Ser Arg Glu Tyr Ser Ala

1

5

10

15

Thr Phe His Lys Xaa Thr Glu Gln Ser Ser Arg Asn Phe Phe Arg Ala

20

25

30

Gly Ile Ala Leu Pro Pro Arg Ile Leu Thr Arg Phe Ser

35

40

45

<210> 179

<211> 38

<212> PRT

<213> Homo sapiens

<220>

<221> UNSURE

<222> (21)..(22)

<400> 179

Met Val Ala Thr Leu Trp Leu Asn Asn Phe Phe Arg Asn His Lys Asn

1

5

10

15

Ala Val Lys Asp Xaa Xaa Lys Arg Leu Lys Ala Ile Leu His Ser Leu

20

25

30

Val Tyr Met Lys Gly Asn

35

<210> 180

<211> 65

<212> PRT
 <213> Homo sapiens

<400> 180
 Ser Trp Cys Ser Gly Leu Met Pro Ser Val Leu Asn Ser Ile Ser Cys
 1 5 10 15
 Val Pro Gly Lys Gly Arg Gly His Ser Leu Glu Trp Phe Pro Gly Glu
 20 25 30
 Lys Ser Gln Ser Asn Leu Cys Ser Ser Phe Leu Asn Lys Asn Arg Arg
 35 40 45
 Gln Asn Lys Gly His Arg Asp Lys Gly Leu Leu Thr Arg Leu Ala Asn
 50 55 60
 Gln
 65

<210> 181
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 181
 Met Ala Phe Gly Ile Tyr Gln Cys Leu Gly Met Phe
 1 5 10

<210> 182
 <211> 23
 <212> PRT
 <213> Homo sapiens

<220>
 <221> UNSURE
 <222> (21)

<400> 182
 Met Leu Leu Thr Pro Gln Pro Trp Phe Phe Lys Val Ile Phe Val Asn
 1 5 10 15
 Tyr Lys Val Arg Xaa Tyr Lys
 20

<210> 183

<211> 29
 <212> PRT
 <213> Homo sapiens

<400> 183
 Met Tyr Lys Ile Arg Lys Ser Arg Pro Glu Glu Asp Ser His Cys Leu
 1 5 10 15

 Gln Arg Thr Ala Lys Gly Lys Gly Phe Lys Ile Phe Asn
 20 25

<210> 184
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 184
 Met Leu Phe Leu Val Ser Ala Ala Leu Ser Ser Ser Leu Thr Asp Asn
 1 5 10 15

 Cys Arg Ala Gln Val Gly Arg Lys Asn Ser Val Cys Leu Leu Gly Ser
 20 25 30

 Ala Ser Ala Pro Val Ser Asn Thr Gly Val Thr Gly Gly Leu Leu Asn
 35 40 45

 Val Lys Tyr Lys Gly Ser Ser Phe Ser Leu
 50 55

<210> 185
 <211> 21
 <212> PRT
 <213> Homo sapiens

<400> 185
 Met Gln Cys Gln Gln Leu Gly Phe Ser Glu Ile Ile Ser Arg Leu Gln
 1 5 10 15

 Ser Asn Gln Ile Ser
 20

<210> 186
 <211> 16
 <212> PRT
 <213> Homo sapiens

<210> 189
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 189
 Met Cys Leu Lys Gln Ile Leu Leu Glu Phe Pro Lys Arg Leu Asp Ile
 1 5 10 15
 Ile Asn Thr Phe Met Tyr Thr Trp His Pro Thr Arg Ala Val Cys Phe
 20 25 30
 Tyr Lys Lys Trp His Lys Asn
 35

<210> 190
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 190
 Phe Ser Ser Leu Met Lys Val Ile Thr Asp Trp Ala Gln Trp Leu Thr
 1 5 10 15
 Pro Val Ile Pro Val Leu Trp Glu Val Ala Val Val Gly Ala Leu Glu
 20 25 30
 Ala Arg Ser Leu Arg Pro Ala Trp Glu Thr Ala Thr Pro Phe Pro Phe
 35 40 45
 Ala Lys Lys Lys Lys
 50

<210> 191
 <211> 44
 <212> PRT
 <213> Homo sapiens

<400> 191
 Met Lys Ala Leu Cys Arg Leu Ser Val Leu Gln Met Leu Val Met Gly
 1 5 10 15
 Met Val Val Met Arg Lys Val Met Pro Val Thr Met Arg Arg Gly Asp
 20 25 30

Ala Val Asn Ser Ile His Pro Val Leu Gly Lys Tyr
 35 40

<210> 192
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 192
 Met Ser Leu Ser Leu Asp Ser Leu Ser Ser Ile Cys Leu Ile Val Asp
 1 5 10 15

Leu Leu Asn Phe Ser Tyr Met Glu Phe Thr Glu Arg Leu Glu Cys Glu
 20 25 30

Asp Gln His Phe Ser Ser Asn Leu Val Ser Phe Gln Ala Met Ile Ser
 35 40 45

Ser Asp Ile Leu Pro
 50

<210> 193
 <211> 124
 <212> PRT
 <213> Homo sapiens

<400> 193
 Met Arg Phe Leu Leu Pro Ala Ala Glu Lys Arg Lys Glu Asn Ser Ala
 1 5 10 15

Gly Ala Pro Leu Ala Ser Pro Arg Val Thr Thr Met Phe Ser His Asp
 20 25 30

Arg Gln Thr Gly Ala Leu Leu Leu Cys Asp Pro Pro Arg Ala Ala Glu
 35 40 45

Ser Ile Leu Ile His Leu Gly Thr Pro Ala Gln Glu Glu Pro Gly Pro
 50 55 60

Ser Pro Phe Arg Asp Val Asp Pro Leu Arg Gly Glu Phe Ser Ser Val
 65 70 75 80

Asp Ser Asp Leu Leu Arg Leu Thr Ser Leu Gly Asn Pro Ala Ile Ala
 85 90 95

Val Gly Asn Gln Val Ala Ala Trp Ala His Met Ala Ser Arg Arg Leu
100 105 110

Arg Leu Thr Ser Lys Arg His Ser Gln Arg Arg Lys
115 120

<210> 194
<211> 44
<212> PRT
<213> Homo sapiens

<400> 194
Met Phe Gln Arg Ile Ser Val Phe Ser Pro Ala Ile Thr Asn Lys Ser
1 5 10 15

Ser Gly Phe Ala Val Pro Pro Cys Lys Asn Tyr Lys Met Ala Glu Asn
20 25 30

Asn Ala Cys Phe Ile Ile Leu Val Lys Trp Ser Thr
35 40

<210> 195
<211> 27
<212> PRT
<213> Homo sapiens

<400> 195
Met Val Arg Arg His Ile Gly Ser Ala Val Arg Trp Pro Leu Phe Phe
1 5 10 15

Ser Asn Trp Ser Pro Tyr Ala Ser Cys Cys Asn
20 25

<210> 196
<211> 31
<212> PRT
<213> Homo sapiens

<400> 196
Met Thr Lys Ile Cys Phe Leu Asn Pro Thr Leu Ala Phe Lys Lys Ile
1 5 10 15

Gln Ser Lys Ile Phe Arg Leu Phe Leu Lys Asp Glu Lys Ala Ala
20 25 30

<210> 197
 <211> 25
 <212> PRT
 <213> Homo sapiens

<400> 197
 Met Tyr Met His Tyr Arg Asp Arg Lys Thr Gln Phe Asn Ile Lys Asn
 1 5 10 15
 Asn Ile Ser Leu Leu Asn Asn Ala Val
 20 25

<210> 198
 <211> 82
 <212> PRT
 <213> Homo sapiens

<220>
 <221> UNSURE
 <222> (80)

<400> 198
 Met Gly Met Val Ala Gly Ala Pro Thr Ala Trp Asn Pro Glu Asp Lys
 1 5 10 15
 Gly Cys Ile Leu Leu Gly Arg Gln Ser Tyr Glu Leu Asp Ala Met Trp
 20 25 30
 Pro Leu Gly Ala Leu Cys Arg Thr Ala Thr Ile Pro Ala Leu Leu Asp
 35 40 45
 Gly Glu Ser Glu Ala Leu Arg Ser Asp Glu Asn Gln Trp Gln Ser Gln
 50 55 60
 Met Tyr His Phe Ser His Thr Leu Thr Phe Phe Cys Phe Val Pro Xaa
 65 70 75 80
 Phe Phe

<210> 199
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 199

Met Pro Leu Arg Ser Lys Leu Val Asn Ile His Leu Phe Leu Thr Thr
1 5 10 15

Ala Thr Val Phe Ser Leu Tyr Thr Asn Tyr Thr Ala Ser Lys Phe Ser
20 25 30

Ser Phe Pro Ala Ser Asn Gln Glu Phe Asn Met Glu Val Gln
35 40 45

<210> 200

<211> 74

<212> PRT

<213> Homo sapiens

<400> 200

Met Gln Val Gln Arg Pro Thr Ser Trp Gly His Ile Ser Thr Ala Phe
1 5 10 15

Arg Ala Ala Pro Glu Ser Ser Arg Ser Phe Leu Ser Leu Leu Gln Thr
20 25 30

Phe Phe Glu Lys Trp Thr Phe His Pro His Val Pro Ser Val Trp Leu
35 40 45

Arg Lys Ser Thr Ser Gly Pro Trp Glu Gly Pro Gly Lys Pro Phe Pro
50 55 60

Leu Ser Leu Trp Cys Val Gly Ile Asn Leu
65 70

<210> 201

<211> 150

<212> PRT

<213> Homo sapiens

<400> 201

Met Asn Gly Lys Thr Gln Cys Lys Ala Pro Asn Asp Ser Val Arg Ser
1 5 10 15

Val Val Gly Arg Thr Asn Thr Trp Ile His Arg Thr Glu Ile Asp Asn
20 25 30

Leu Ala Cys Asp Glu Leu Lys Ala Asp Ile Leu Asn Trp Trp Arg Lys
35 40 45

Glu Tyr Leu Leu Ile Ile Gly Ile Thr Ala Phe Leu Phe Leu Phe Arg
 50 55 60
 Gly Ala Ile Leu Lys Asp Lys Gln Pro Thr Gly Lys Leu Gly Gln His
 65 70 75 80
 Asn Thr Asn Arg Gln Cys Thr Val Glu Ile Tyr Lys Trp Pro Ile Asn
 85 90 95
 Met Glu Met Phe Asp Phe Val Arg Asn Gln Gly Asn Ser Ser Glu Asn
 100 105 110
 Lys Val Leu Ser Ile Thr Arg Leu Val Lys Thr Lys Gln Asn Asn Leu
 115 120 125
 Ser Ile Leu Ile Pro Leu Thr Val Gly Lys Gly Leu Glu Lys Trp Val
 130 135 140
 Leu Leu Trp Arg Val Asn
 145 150

<210> 202
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 202
 Met Ala Ala Arg Leu Pro Thr Leu Thr Arg Tyr Lys Phe Ser Ser Leu
 1 5 10 15
 Gly Ser Trp Tyr Lys Ser Gln Pro Phe Gln Leu Val Met Asn Glu Arg
 20 25 30

Ala

<210> 203
 <211> 68
 <212> PRT
 <213> Homo sapiens

<220>
 <221> UNSURE
 <222> (9)

<220>

<221> UNSURE

<222> (23)

<220>

<221> UNSURE

<222> (42)

<400> 203

Met Gln His His Phe Ser Leu His Xaa Pro Cys Arg Asp Leu Pro Gly
1 5 10 15

Ala Gln Lys Lys Lys Asp Xaa Ile Cys Cys Ser Gln Glu Met Leu His
20 25 30

Ile Val His Leu Pro Ala Ser Tyr Arg Xaa Tyr Lys Tyr Glu Ser Thr
35 40 45

Asn Ser Leu Gly Phe Asn Asn Val Thr Tyr Ile Tyr His Lys Val Ala
50 55 60

Ile Pro Asp His
65

<210> 204

<211> 34

<212> PRT

<213> Homo sapiens

<400> 204

Met Thr Ala Ser Leu Cys Leu Gln Pro Lys Pro Leu Leu Ser Thr Asn
1 5 10 15

Pro Tyr Ala His Gly Ala Glu Thr Ala Gln Pro Ser Val Lys Glu Pro
20 25 30

Gly Phe

<210> 205

<211> 115

<212> PRT

<213> Homo sapiens

<400> 205

Leu Ala Ala Ile Tyr Gly Phe Leu Ser Phe Phe Phe Phe Phe Phe
1 5 10 15

Ala Asp Lys Val Ser Leu Ser Pro Arg Leu Glu Ala Cys Asn Gly Thr
 20 25 30

Ile Thr Ala His Gly Ser Phe Asp Phe Leu Gly Ser Gly Asp Pro Pro
 35 40 45

Thr Ser Ala Ser Ala Ile Ala Gly Thr Gly Ala His His His Ile Ala
 50 55 60

Leu Leu Phe Val Phe Phe Val Glu Val Gly Ser Arg Tyr Val Ala Gln
 65 70 75 80

Ala Ala Leu Gln Leu Leu Arg Ser Gly Asp Leu Pro Ala Ser Ala Ser
 85 90 95

Gln Ser Thr Gly Ile Thr Gly Thr Ser His Cys Ser Trp Pro Tyr Met
 100 105 110

Val Leu Phe
 115

<210> 206
 <211> 28
 <212> PRT
 <213> Homo sapiens

<400> 206
 Met Phe Ala Ser Tyr Lys Leu Asn Asn Tyr Ser Tyr Pro Val Leu Val
 1 5 10 15

Leu Tyr Ala Thr Leu Phe Pro His His Met Ile Phe
 20 25

<210> 207
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 207
 Met Ser Leu Ser Pro Ile Tyr Phe Asn Ala Ser Phe Val Ile Ser Glu
 1 5 10 15

Tyr Met Ser Asn Phe Tyr Phe Asn Ser Thr Cys His Leu Cys Tyr Glu
 20 25 30

Asp Trp Lys Pro Ser Phe Ser Pro Gly Leu Gly Glu Ala Lys Cys Phe
 35 40 45

Thr Tyr Leu Glu Cys Leu Cys His Ser Asn Phe Gln Leu Val Cys Asn
 50 55 60

Cys Ser Phe Asn
 65

<210> 208
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 208
 Met Asn Glu Tyr Val Asn Glu Cys Leu Asn Glu Trp Ser Gly Met Asn
 1 5 10 15

Pro Val Ser Pro Val Leu Cys Pro Pro Leu Ile His Ser Val Thr Leu
 20 25 30

Gly Arg Thr Phe Asn His Ser
 35

<210> 209
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 209
 Met Pro Phe Pro Ser His Ser Leu Leu Leu His Phe Phe Pro Pro Glu
 1 5 10 15

Arg Leu Ser Ser Gly Pro Tyr Glu Ile Ala Ser Ile Gln Leu Phe Phe
 20 25 30

Ile Leu Lys Gly Asp Asn Ser Ile Ser Phe Asn Leu Asn
 35 40 45

<210> 210
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 210

Leu Gly Ser Leu Gln Pro Pro Pro Pro Gly Phe Lys Ala Phe Ser Cys
 1 5 10 15
 Leu Ser Leu Pro Ser Ser Trp Asp His Ala Arg Pro Pro Ala Cys Leu
 20 25 30
 Ala Lys Phe Cys Ile Phe Ser Lys Asp Arg Val Ser Pro Cys Trp Pro
 35 40 45
 Gly Trp Ser Ala Thr Ala Asp Leu Val Ile Arg Pro Pro Leu Pro Pro
 50 55 60
 Lys Val Leu Gly Leu Gln
 65 70

<210> 211
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 211
 Met Leu Asn Cys Leu Phe Cys Ile Leu Ala Ile Val Lys Ser Ala Thr
 1 5 10 15
 Asn Arg Ile Ala Asn Val Ser Ser
 20

<210> 212
 <211> 492
 <212> PRT
 <213> Homo sapiens

<400> 212
 Thr Lys Phe Ile Lys Leu Ser Lys Tyr Lys Asn Ile Ile Lys Lys Ser
 1 5 10 15
 Ala Ala Phe Leu Tyr Ile Ser Asn Tyr Leu Lys Met Lys Phe Lys Lys
 20 25 30
 Ile Pro Ser Thr Ala Leu Ala Phe Glu Val Asn Leu Thr Lys Lys Leu
 35 40 45
 Lys His Leu Thr Phe Tyr Ser Lys Glu His Tyr Thr Asn Ala Val Thr
 50 55 60
 His Lys Trp Asn Asn Ile Thr His Ser Ala Thr Gly Ile Phe Asn Ser

<210> 214
 <211> 67
 <212> PRT
 <213> Homo sapiens

<400> 214
 Met Cys His Glu Leu Trp Pro Cys Leu Tyr Phe Tyr Phe Asn Arg Asn
 1 5 10 15

 His Leu Phe Lys Gln Lys Val Leu His Leu Asn Cys His Asn Cys Val
 20 25 30

 Cys Val Ile Asn Ile Ser Tyr Phe Ile Gln Ala Gln Pro Thr Leu Ala
 35 40 45

 Phe Ile Asn Ala His Asn Gln Glu Ile Asn Leu Ile Leu Thr Lys Asn
 50 55 60

 Tyr Pro Ser
 65

<210> 215
 <211> 12
 <212> PRT
 <213> Homo sapiens

<400> 215
 Met Ser His Asn Ile Asp Leu Leu Gly Lys Asp Phe
 1 5 10

<210> 216
 <211> 39
 <212> PRT
 <213> Homo sapiens

<400> 216
 Met Arg Glu Cys Gly Glu Ser Ile Cys Pro Ser Leu Ala Gly His Arg
 1 5 10 15

 Leu Ser Arg Gly Ala Val Glu Val Glu Thr Thr Gln Asp Ser Glu Ser
 20 25 30

 Pro Gln Val His Pro Gly Pro
 35

<210> 217
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 217
 Met Leu Leu Ser Cys Cys Ser Gln Asn Gln Lys Met Ala Ser Arg Ser
 1 5 10 15
 Ala Gln Ser Ser Gln Glu Gln Met Leu Arg Val Thr Leu Glu Ser Phe
 20 25 30
 Cys Cys Leu His Ile Gln Thr Ile Thr Ile Ser Leu Ile Ser Leu Leu
 35 40 45
 Tyr Ile Phe His Met Cys Pro Leu Leu Ser Ile Cys Thr Leu Ile Ser
 50 55 60
 Glu Gly His Gln His Leu Ser Ser Glu Cys Leu Gln Tyr Leu Leu Thr
 65 70 75 80
 Gly His Gln Ala Ser Ser Phe Ala Pro
 85

<210> 218
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 218
 Met Asp Cys Thr Ala Val Gly Arg Gly Thr Arg Arg Ala Ser Ala Pro
 1 5 10 15
 Thr Cys Glu Arg Arg Pro Arg Gly Leu Arg Cys Arg Arg Pro Val Ala
 20 25 30
 Pro Pro Pro Arg Ala Leu Ser Ala Val Asn Leu Gly Arg Arg Arg Trp
 35 40 45
 Gly Ser Gly Lys Arg Arg Ala Gln
 50 55

<210> 219
 <211> 36
 <212> PRT

<213> Homo sapiens

<400> 219

Ala Ala Ala Ala Pro Pro Pro Ala Pro Pro His His Gly Ala Ala Ala
1 5 10 15
Pro Pro Pro Gly Gln Leu Ser Pro Ala Ser Pro Ala Thr Ala Ala Pro
20 25 30
Pro Ala Pro Ala
35

<210> 220

<211> 85

<212> PRT

<213> Homo sapiens

<400> 220

Met Ala Gly Pro Arg Cys Pro Arg Lys Gly Arg Thr Asn Thr Cys Val
1 5 10 15
Cys Ser Ala Asn Pro Leu Glu Ala Val Gln Lys Pro Leu Ala Ala Gly
20 25 30
Pro Thr Arg Arg Gly Gly Gly Trp Asp Pro Ala Gly Ala Gly Ala Ala
35 40 45
Trp Leu His Gly Leu Tyr Ser Val Tyr Thr Ala Gly Gly Arg Gly Gly
50 55 60
Arg Leu Arg Phe Leu Arg Tyr Gln Ser Arg Arg Phe Gly His Leu Arg
65 70 75 80
Ala Pro Ala Ala Gly
85

<210> 221

<211> 376

<212> PRT

<213> Homo sapiens

<400> 221

Met Met Ala Ser Tyr Pro Glu Pro Glu Asp Ala Ala Gly Ala Leu Leu
1 5 10 15
Ala Pro Glu Thr Gly Arg Thr Val Lys Glu Pro Glu Gly Pro Pro Pro

275

280

285

His Pro His Pro His Pro His Ala His His Leu His Ala Ala Ala Ala
 290 295 300

Pro Pro Pro Ala Pro Pro His His Gly Ala Ala Ala Pro Pro Pro Gly
 305 310 315 320

Gln Leu Ser Pro Ala Ser Pro Ala Thr Ala Ala Pro Pro Ala Pro Ala
 325 330 335

Pro Thr Ser Ala Pro Gly Leu Gln Phe Ala Cys Ala Arg Gln Pro Glu
 340 345 350

Leu Ala Met Met His Cys Ser Tyr Trp Asp His Asp Ser Lys Thr Gly
 355 360 365

Ala Leu His Ser Arg Leu Asp Leu
 370 375

<210> 222

<211> 19

<212> PRT

<213> Homo sapiens

<400> 222

Met Gln Tyr Phe Ser Leu Pro Val Leu Thr Leu Leu Met Val Pro Phe
 1 5 10 15

Ile Phe Ile

<210> 223

<211> 30

<212> PRT

<213> Homo sapiens

<400> 223

Met Pro Leu Lys His Ile Lys Phe Lys Asn Leu Phe Leu Leu Ala Leu
 1 5 10 15

Glu Ile Leu Trp Asn Phe Thr Trp Asn Leu Ile Leu Gly Arg
 20 25 30

<210> 224

<211> 52
<212> PRT
<213> Homo sapiens

<400> 224
Met Leu Ile Met Lys Glu Thr His Glu Gln Leu Ser Glu Glu Ser Gly
1 5 10 15
Glu Val Gly Met Ile Ser Glu His Arg Gly Gly Ser Pro Ala Trp Gly
20 25 30
Leu Pro Asn Pro Asp Ala Gln Lys Phe Leu Ser Arg Pro His Tyr Thr
35 40 45
Gly Met Ile Asp
50

<210> 225
<211> 52
<212> PRT
<213> Homo sapiens

<400> 225
Met Gly Leu Asn Pro Gly Val Cys Leu Glu Pro Gln Leu Val Cys Asp
1 5 10 15
Thr Asp His His Phe Leu Lys Thr Ile Tyr Lys Asn Lys Thr Arg Cys
20 25 30
Met Lys Phe Arg Phe Trp Lys Lys Val Gln Val Phe Met Asn Ile Ser
35 40 45
Glu Leu Pro Lys
50

<210> 226
<211> 19
<212> PRT
<213> Homo sapiens

<220>
<221> UNSURE
<222> (14)

<220>
<221> UNSURE

<222> (18)

<400> 226

Met Asp Asn Glu Asn Gln Asn Ile Lys Lys Glu Lys Lys Xaa Lys Lys
1 5 10 15

Lys Xaa Lys

<210> 227

<211> 75

<212> PRT

<213> Homo sapiens

<400> 227

Phe Phe Phe Leu Arg Gln Ser Leu Ala Leu Ser Pro Arg Leu Glu Cys
1 5 10 15

Ser Gly Ala Ile Ser Ala His Cys Lys Leu Arg Leu Pro Gly Ser Cys
20 25 30

His Phe Pro Ala Ser Ala Ser Gln Val Ala Glu Thr Thr Gly Thr Arg
35 40 45

His Asn Ala Arg Val Ile Phe Cys Ile Leu Val Glu Thr Gly Phe His
50 55 60

Arg Val Ser Gln Asp Gly Leu Asp Leu Leu Thr
65 70 75

<210> 228

<211> 95

<212> PRT

<213> Homo sapiens

<400> 228

Met Arg Arg Ala Lys Ala Pro Lys Ile Arg Gly Thr Ala Asn Ala Thr
1 5 10 15

Asp Arg Lys Lys Ala Glu Gly Lys Ser Ala Ser Ser Arg Leu Arg Pro
20 25 30

Arg Gly Pro Ala Leu Ala Pro Ala Ser Ile His Arg Glu His Thr Gln
35 40 45

Glu Ala Phe Glu Trp Pro Gly Phe Leu Val Ser Leu Ala Gln Arg Gln

50

55

60

Glu Leu Glu His Glu Arg Ser Ser Glu Thr Leu Trp Val Leu Pro Thr
 65 70 75 80

Leu Arg Gln Ala Ser Gln His Leu His Ala Leu Leu Cys Ser Pro
 85 90 95

<210> 229

<211> 98

<212> PRT

<213> Homo sapiens

<400> 229

Met Val Gly Ala Ser Pro Gly Gly Met Gly Cys Glu Gly Gly Arg Met
 1 5 10 15

Arg Ala Arg Arg Phe Ser Leu Gly Asp Pro Ala Thr Gln Ser His Leu
 20 25 30

Pro Leu Thr Glu Gly Ser Arg Ala Pro Ser Gly Pro Leu Ala Thr Lys
 35 40 45

Ala Gln Leu Lys Ser Gln Lys Gly His Ile Arg Ser Gln Ala Thr Gly
 50 55 60

Thr Ala His Val Arg Asn Val Ser Ala Met Glu Lys Tyr Lys Thr Arg
 65 70 75 80

Lys Glu Val Cys Gly Pro Asn Arg Thr Cys Leu Ser Thr Phe Tyr Cys
 85 90 95

Asn Val

<210> 230

<211> 84

<212> PRT

<213> Homo sapiens

<400> 230

Met Asp Thr Thr Asn Asn Gln Ile Asn Leu Tyr Ile His Thr Lys Phe
 1 5 10 15

Phe Leu Lys Ile Lys Val Asn Thr Ser Ile Ser Lys Arg Leu Phe Ser
 20 25 30

Pro Tyr Phe Asn Ile His Ile Phe Cys Met Phe Ile Tyr Val His Gly
35 40 45

Gly Cys Phe Tyr Ile Pro Arg Lys Phe Arg Cys Tyr Ser Arg Arg Leu
50 55 60

Ser Ile Ile His Thr Ala Val Lys Trp Ser Pro Ala Leu Ser Arg His
65 70 75 80

Pro Thr Ala Gln

<210> 231

<211> 924

<212> PRT

<213> Homo sapiens

<400> 231

Gly Arg Leu Thr Phe Arg Asp Val Ala Ile Glu Phe Ser Leu Ala Glu
1 5 10 15

Trp Lys Cys Leu Asn Pro Ser Gln Arg Ala Leu Tyr Arg Glu Val Met
20 25 30

Leu Glu Asn Tyr Arg Asn Leu Glu Ala Val Asp Ile Ser Ser Lys Arg
35 40 45

His Asp Glu Gly Gly Leu Val Asn Arg Ala Arg Gln Tyr Arg Ser Asp
50 55 60

Pro His Arg Asp Ile Ala Lys Ile Ser Lys Leu Ser His Trp Arg Phe
65 70 75 80

Leu Leu Pro Gly Asn Ala Glu Arg Asn Ser Ala Tyr Ala Val Ser Val
85 90 95

Ser Arg Arg Glu Arg Asn Gly His Glu Ala Pro Met Thr Lys Ile Lys
100 105 110

Lys Leu Thr Gly Ser Thr Asp Gln His Asp His Arg His Ala Gly Asn
115 120 125

Lys Pro Ile Lys Asp Gln Leu Gly Ser Ser Phe Tyr Ser His Leu Pro
130 135 140

Glu Leu His Ile Ile Gln Ile Lys Gly Lys Ile Gly Asn Gln Phe Glu

[illegible]

660	665	670
Leu Ser Leu His His Arg Ile His Ala Gly Glu Lys Leu Tyr Lys Cys		
675	680	685
Glu Thr Cys Asp Lys Val Phe Ser Arg Lys Ser His Leu Lys Arg His		
690	695	700
Arg Arg Ile His Pro Gly Lys Lys Pro Tyr Lys Cys Lys Val Cys Asp		
705	710	715
Lys Thr Phe Gly Ser Asp Ser His Leu Lys Gln His Thr Gly Leu His		
	725	730
Thr Gly Glu Lys Pro Tyr Lys Cys Asn Glu Cys Gly Lys Ala Phe Ser		
	740	745
Lys Gln Ser Thr Leu Ile His His Gln Ala Val His Gly Val Gly Lys		
	755	760
Leu Asp Ala Cys Asn Asp Cys His Lys Val Phe Ser Asn Ala Thr Thr		
	770	775
Ile Ala Asn His Trp Arg Ile Tyr Asn Glu Ala Arg Ser Asn Lys Cys		
785	790	795
Asn Lys Cys Gly Lys Phe Phe Arg His His Ser Tyr Ile Ala Val His		
	805	810
Ala His Thr His Thr Gly Glu Lys Pro Tyr Lys Cys His Asp Cys Gly		
	820	825
Lys Val Phe Ser Gln Ala Ser Ser Tyr Ala Lys His Arg Arg Ile His		
	835	840
Thr Gly Glu Lys Pro His Met Cys Asp Asp Cys Gly Lys Ala Phe Thr		
	850	855
Ser Cys Ser His Leu Ile Arg His Gln Arg Ile Pro Thr Gly Gln Lys		
865	870	875
Ser Tyr Lys Cys Gln Lys Cys Gly Lys Val Leu Ser Pro Arg Ser Leu		
	885	890
Leu Ala Glu His Gln Lys Ile His Phe Ala Asp Asn Cys Ser Gln Cys		
	900	905
Ser Glu Tyr Ser Lys Pro Ser Ser Ile Asn Ala His		
		910

<210> 232
 <211> 322
 <212> PRT
 <213> Homo sapiens

<220>
 <221> UNSURE
 <222> (291)..(299)

<400> 232

Met Leu Ala Ala Cys Leu Met Thr Pro Asp His Pro Thr Ala Gly Asn
 1 5 10 15

Gln Pro Leu Arg Thr Pro Ser His Val Pro Gly Thr Cys Arg Cys Arg
 20 25 30

Ser Gln His Pro Ala Val Trp Ala Leu Tyr Asp Asp Gln Leu Gly Asn
 35 40 45

Val Gly Asp His His Val Ala Thr His Met Val Gly Pro His Asp His
 50 55 60

Ile Leu Pro Ile Leu Gln Leu Leu Leu Pro Gly Asp Leu Arg Pro Gly
 65 70 75 80

Pro Ala His His Ile Thr Glu Glu Thr His Cys Leu Thr His Gly Asp
 85 90 95

Arg Leu Val His Thr Val Val Glu Gln Arg Arg Asp Arg His Val Gln
 100 105 110

Leu Arg Gly Leu Trp Gly Gly Cys Ala Gly Val His Gly Gly Leu Arg
 115 120 125

Cys Trp Gly Ala Gly Val Gly Pro Gly Glu Val Ile Ala Ala Gly Tyr
 130 135 140

Asn Gly Gln Cys Asp Ala Phe Gly Ala Gly Leu Gly Ile His Val Ala
 145 150 155 160

Ala Val Ile Val Gly Glu Ala Val Arg Gly Ala Gly Lys Ala Gly Leu
 165 170 175

Leu Leu Thr Ala Val Phe Ala Leu Thr His Gly Leu Ala Ile Pro Asp
 180 185 190

Val Thr Leu Arg Ala Leu Leu Gln Thr His Glu Val Val Thr Cys Gly
 195 200 205

Leu Leu Gly His Ala His Trp Ala Leu Leu Pro Phe His Val His Val
 210 215 220

Ala Gly Arg His Ala Ala Leu Gly Pro Thr Tyr Val Gly Ala Ala Leu
 225 230 235 240

Leu Ile Gly Leu Thr Leu Leu Val Arg Leu Thr Leu Pro Pro Ala Gly
 245 250 255

Ala Leu Cys Val His Pro Glu Val Gly Ile His Val Val Gly Ala Asp
 260 265 270

Ala Gly Val Gly Ile Ala Asp Gly Arg Gln Arg Gln Ala Ser Arg Gly
 275 280 285

His Pro Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa Cys His Leu Leu Pro
 290 295 300

Ala Arg Pro Glu Pro Ala Thr Pro Trp Gly Pro His Gly Ala Gly Trp
 305 310 315 320

Gly Gly

<210> 233

<211> 503

<212> PRT

<213> Homo sapiens

<400> 233

Glu Cys Glu Thr Tyr Glu Lys Cys Cys Pro Asn Val Cys Gly Thr Lys
 1 5 10 15

Ser Cys Val Ala Ala Arg Tyr Met Asp Val Lys Gly Lys Lys Gly Pro
 20 25 30

Val Gly Met Pro Lys Glu Ala Thr Cys Asp His Phe Met Cys Leu Gln
 35 40 45

Gln Gly Ser Glu Cys Asp Ile Trp Asp Gly Gln Pro Val Cys Lys Cys
 50 55 60

Lys Asp Arg Cys Glu Lys Glu Pro Ser Phe Thr Cys Ala Ser Asp Gly

65		70		75		80
Leu Thr Tyr Tyr Asn Arg Cys Tyr Met Asp Ala Glu Ala Cys Ser Lys						
		85		90		95
Gly Ile Thr Leu Ala Val Val Thr Cys Arg Tyr His Phe Thr Trp Pro						
		100		105		110
Asn Thr Ser Pro Pro Ala Pro Glu Thr Thr Met His Pro Ser Thr Ala						
		115		120		125
Ser Pro Glu Thr Pro Glu Leu Asp Met Ala Val Pro Ala Leu Leu Asn						
		130		135		140
Asn Arg Val His Gln Ser Val Thr Met Gly Glu Thr Val Ser Phe Leu						
		145		150		155
				155		160
Cys Asp Val Val Gly Arg Pro Arg Pro Glu Ile Thr Trp Glu Lys Gln						
		165		170		175
Leu Glu Asp Arg Glu Asn Val Val Met Arg Pro Asn His Val Arg Gly						
		180		185		190
Asn Val Val Val Thr Asn Ile Ala Gln Leu Val Ile Tyr Asn Ala Arg						
		195		200		205
Leu Gln Asp Ala Gly Ile Tyr Thr Cys Thr Ala Arg Asn Val Ala Gly						
		210		215		220
Val Leu Arg Ala Asp Phe Pro Leu Ser Asp Gly Gln Gly Ser Ser Gly						
		225		230		235
				235		240
Met Gln Pro Ala Ser Glu Ser Ser Pro Asn Gly Thr Ala Phe Pro Ala						
		245		250		255
Ala Glu Cys Leu Lys Pro Pro Asp Ser Glu Asp Cys Gly Glu Glu Gln						
		260		265		270
Thr Arg Trp His Phe Asp Ala Gln Ala Asn Asn Cys Leu Thr Phe Thr						
		275		280		285
Phe Gly His Cys His Arg Asn Leu Asn His Phe Glu Thr Tyr Glu Ala						
		290		295		300
Cys Met Leu Ala Cys Met Ser Gly Pro Leu Ala Ala Cys Ser Leu Pro						
		305		310		315
				315		320
Ala Leu Gln Gly Pro Cys Lys Ala Tyr Ala Pro Arg Trp Ala Tyr Asn						

Thr Lys Gln Ile Pro Gly Leu Leu Ser Asp Leu Cys Pro Arg Lys Pro
 35 40 45

Val Ala Tyr Glu Ser Thr Pro Ser Ile Arg Gln Lys Leu Gln Thr Val
 50 55 60

Val Ser Pro Ala Glu Gly Cys Val Trp Gly Pro Trp Asp Glu Gly Ile
 65 70 75 80

Cys Val Gly Ala Leu Arg Thr Gly Gln
 85

<210> 235
 <211> 29
 <212> PRT
 <213> Homo sapiens

<400> 235
 Met Gly Gly Ala Leu Leu Pro Pro Asp Arg Asp Glu Ser Pro Arg Tyr
 1 5 10 15

Leu Leu Asn Leu Cys Asn Thr Pro Ala Gly Lys Leu Gly
 20 25

<210> 236
 <211> 38
 <212> PRT
 <213> Homo sapiens

<400> 236
 Met Pro Ser Leu Ser Glu Ser Ile Leu Leu Ser Ser Glu Val Cys Asp
 1 5 10 15

Trp Thr Lys Leu Ser Thr Ile Phe Ser Ser Ala Asn Asn Leu Leu Leu
 20 25 30

Ile Cys Cys Lys Val Ser
 35

<210> 237
 <211> 33
 <212> PRT
 <213> Homo sapiens

<400> 237

Met Leu Pro Ser Gly Val Lys Lys Phe Phe Val Asp Arg Ala Phe Glu
 1 5 10 15

Leu Arg Ser Phe Lys Tyr Thr Thr Asp Val Pro Leu Arg Glu Thr Asp
 20 25 30

Leu

<210> 238

<211> 88

<212> PRT

<213> Homo sapiens

<400> 238

Met Gln Ala Ser Pro Leu Gln Ile Arg Gln Asn Pro Ala Leu Phe Leu
 1 5 10 15

Val Met Thr Phe Pro Thr Ala Arg Gly His Lys Ser Met Ile Gln His
 20 25 30

Tyr Arg Asn Pro Pro Thr Ser Arg Lys Val Ser Thr Thr His Lys Asp
 35 40 45

Ser His Val His Ala Asp Thr Lys Thr His Phe Arg Glu Glu Ala Pro
 50 55 60

Arg His Ser Leu Lys Pro Gln Leu Gly Thr Phe Leu His Asp Asn Ser
 65 70 75 80

Ser Ala Ser Leu Gly Gln Cys Asn
 85